LETTER REPORT

**TANK WASTE SOURCE TERM
INVENTORY VALIDATION**

Prepared for

Westinghouse Hanford Company

April 1995

For the U.S. Department of Energy
Contract DE-AC06-93RL12359

Prepared by

ICF Kaiser Hanford Company
Richland, Washington

E01595LR

VOLUME II

ICF Kaiser Hanford Company

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APPENDIX C

Radionuclides Tables

SUMMARY/DESCRIPTION OF TABLE FIELDS AND CODES

The sample data tables that follow contain all the information used to make the plots, either radionuclide or chemical analyte as indicated in the title. This information is specifically useful in that it includes, in addition to the information on the plots found in the previous appendices, all the data points that are above or below the plot limits. Information included in the tables is as follows:

Tank Waste Characterization Sample Information

- Tank - the tank the sample was taken from
- Reported Chemical/Radionuclide - the chemical/radionuclide as it was reported
- Date - date sampled (if available), otherwise analyzed date or memo/letter/report date
- Sample # - any sample number available to identify the sample from others
- Density - any bulk density or specific gravity associated with the particular reported chemical or radionuclide
- Reported Value - value associated with the constituent analyzed
- Reported Unit - unit associated with the constituent analyzed and the value obtained
- Code - A letter code indicating the general sample state/phase, defined below
- Sample State - a reiteration of the code, or additional sample characteristics
- Source - indication of the source of the data (ie. Braun, WASTREN, Raw, etc.)

Analyte/Radionuclide Information

- Analyte/Radionuclide - the analyte/radionuclide desired by the WHC ASA Source Term Inventory Validation. This information may be different than the reported chemical/radionuclide since analytes were pulled out of chemical compounds, or extrapolated as in the case with OH used for NaOH.

- $\mu\text{g/L}$ (chemical table) - the reported value converted to micrograms/liter
- Bq/L (radionuclide table) - the reported value converted to Becquerel/liter
- Bq/L Decayed (radionuclide table) - the Bq/L value decayed from the date (described above) to 12/31/94.

Other row indicators and codes are defined here. Row indicators for the ASA Source Term Activity concentration and preliminary ASA Source Term Activity Concentration will divide the data into those data points above, and those below the chosen maximum concentrations. There is also a row indicator for the minimum plot limit. In addition, all the data was given a code to delineate sample type. These codes are as follows:

A Salts	P Supernatant
D Suspended Solids	R Slurry
F Filtrate	S Solid (including: KOH fusion, acid wash, filtered or centrifuged solids, washed or fusion solids, slurry/solids, supernatant/solids)
G Sludge	T Crust
I Composite, sludge/composite	U Unknown
K Saltcake	Y Slurry/Sludge
L Liquid/Liquor, centrifuged decant, centrate	
O Other (must be accompanied with % solids)	

The ID Column on the tables gives a code which identifies why the sample was not used for the ASA value. The list of codes follows. An asterisk in the column denotes that the sample was chosen as the ASA value.

ID Codes for radionuclide and toxicological tables

1. Units error. $\mu\text{Ci/L}$ incorrectly copied as Ci/L .
2. Information not intended for characterization. These results were taken from PNL 7258, a report on development of analytical procedures and techniques.
3. Information not intended for characterization. The original laboratory report states that the purpose was to develop analytical procedures. Results are not applicable to characterization.
4. TRAC and HTCE Inventory data were not used to establish ASA values. See text of report.
5. This element was not used in ASA Source Term, so the data was not evaluated by the WHC panel.
6. Units, calculation, or conversion error.
7. Tank was an evaporator feed tank. Sample is not related to current tank contents.
8. Value so close to ASA value that it confirms upper bound chosen and is not meaningful to change ASA value.
9. Tank has been sluiced since samples were taken. Material is no longer in tank.
10. Tank was in evaporator bottoms system when sample was taken. Liquid would have been returned to evaporator and does not represent current tank contents.
11. Tank has been pumped since sample was taken. Sample does not represent current contents of tank.

12. Material that was sampled is now buried under saltcake.
13. Error made in copying from original report.
14. Original lab report contains caveats that discredit value or lab report contained an error.
15. Results from 200-series tanks were not used. The contents of the 200-series tanks are not considered representative of the 100-series tanks.
16. The difference between the value and the ASA value is due to different date counting systems used in the decaying process.
17. No analytical data were available. Rather than using TRAC data ^{90}Y is assumed to be equal in concentration to ^{90}Sr . The ^{90}Y concentration is equal to the ASA value for ^{90}Sr .
18. The sample 102-SY-3C does not have a clearly defined density. Two different densities resulted in the difference between the values listed below. The second value was used for ASA calculations before the other density was found.

^{241}Am DST solids	2.97E+09	2.69E+09
^{241}Pu DST solids	5.13E+09	4.14E+09
19. Result as reported is not physically possible.
20. Value in original report was a "less than" value. This means the sample concentration was below the detection limits for the equipment or procedure. The value should not be used.
21. Duplicate result.

22. The ASA value is an implied value. The ASA values that were implied and their source are listed below.

SST liquids

 ^{90}Y Implied from ^{90}Sr ^{241}Pu Implied from ^{239}Pu

SST solids

 ^{90}Y Implied from ^{90}Sr ^{238}Pu Implied from ^{239}Pu ^{241}Pu Implied from ^{239}Pu ^{241}Am Implied from ^{239}Pu

DST liquids

 ^{90}Y Implied from ^{90}Sr ^{238}Pu Implied from ^{239}Pu ^{241}Pu Implied from ^{239}Pu

DST solids

 ^{90}Y Implied from ^{90}Sr

AWF liquids

 ^{90}Y Implied from ^{90}Sr

AWF solids

 ^{90}Y Implied from ^{90}Sr

23. This preliminary value was initially used and is higher than the ASA value due to an error in the radionuclide decay time calculation.
24. The preliminary value was based on a point with an assumed density. The correct density was found and the value was subsequently lowered.
25. The value used for the ASA value is a combined supernatant slurry sample.
26. These are the same sample. The wrong units ($\mu\text{Ci/g}$) were used initially, resulting in the preliminary ASA value. The correct units ($\mu\text{Ci/mL}$) when used yielded a lower value.

27. This point is unverifiable.
28. The analysis technique used is not recommended for the analyte reported.
29. Ferrocyanide sample results are not equivalent to cyanide results for toxicological use.
30. The sample is probably representative of the solids in the tank at the time of sampling. Since then, approximately 60 in. of strontium sludge has been added to the tank. The 60 in. would probably prevent release of the mercury sludge in an accident. However, between this sample and the next 13, the range of concentrations is $2.01\text{E}+07$ to $5.42\text{E}+07$. With this small range, it was decided to go ahead and use the C-107 value of $5.42\text{E}+07$ Bq/L.
31. The laboratory data was not corrected for dilution factors or baseline correction factors.
32. Data from work done for flow sheet development. Not used for characterization.
33. Insufficient back-up for the reported result makes it indefensible.
34. The value is weight percent oxide. This is not used for ASA calculations.
35. Solids that precipitated out of a tank liquid sample when the sample was cooled. It is not representative of the tank solids.
36. Tank has received large quantities of waste since this sample was taken. It is no longer representative.
37. This is a sum of NH_3^+ and OH^- . NH_3 alone is below the ASA line.
38. This value originally came from a solid sample.

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
 ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SX101	Am241	4/26/89					L	Drainable Liquid	Wastren	Am241	2.96E+09	2.93E+09	1
C106	Am241	4/1/90	1		2.85E+03	uCi/kg	L	98 +/-	RAW	Am241	1.16E+08	1.15E+08	2
C106	Am241	4/1/90	RAT-C106-4B		2.824	uCi/gm	U	Unknown	Braun	Am241	1.15E+08	1.14E+08	2
C105	Am241	2/1/91			9.62E+02	nCi/g	U	Unknown	RAW	Am241	5.70E+07	5.66E+07	2
C105	Am241	4/1/90	RAT-C105-4B		0.962	uCi/gm	U	Unknown	Braun	Am241	3.92E+07	3.89E+07	2
ASA Value: 3.66E+07 Bq/L													
AX102	Am241	11/14/88	RAT-AX102-3		1000	uCi/l	P	Supernate	Braun	Am241	3.70E+07	3.66E+07	*
AX102	Am241	11/14/88					P	Supernate	Wastren	Am241	3.70E+07	3.66E+07	*
T105	Am241	5/28/93	B08WT3	0.9933333	7.67E-01	uCi/g	L	PRIMARY RESULT	TCD	Am241	2.82E+07	2.81E+07	
T105	Am241	5/28/93	B08WT3	0.9933333	4.16E-01	uCi/g	L	DUPLICATE RESULT	TCD	Am241	1.53E+07	1.53E+07	
SX105	Am241						L		TRAC	Am241	1.53E+07	1.50E+07	
B108	Am241						L		TRAC	Am241	1.43E+07	1.40E+07	
T105	Am241	5/28/93	B08WT3	0.9933333	3.74E-01	uCi/g	L	PRIMARY RESULT	TCD	Am241	1.37E+07	1.37E+07	
T107	Am241	3/5/85			3.46E+02	uCi/L	P	Supernatant	RAW	Am241	1.28E+07	1.26E+07	
SX104	Am241						L		TRAC	Am241	1.20E+07	1.17E+07	
S101	Am241						L		TRAC	Am241	1.16E+07	1.14E+07	
A103	Am241						L		TRAC	Am241	9.72E+06	9.50E+06	
SX106	Am241						L		TRAC	Am241	8.38E+06	8.20E+06	
T101	Am241						L		TRAC	Am241	6.69E+06	6.54E+06	
T107	Am241	3/5/85			1.72E+02	uCi/L	P	Supernatant	RAW	Am241	6.36E+06	6.26E+06	
BX110	Am241						L		TRAC	Am241	3.94E+06	3.86E+06	
U107	Am241						L		TRAC	Am241	3.70E+06	3.62E+06	
T103	Am241						L		TRAC	Am241	3.57E+06	3.49E+06	
BX111	Am241						L		TRAC	Am241	3.14E+06	3.07E+06	
BY109	Am241						L		TRAC	Am241	2.98E+06	2.91E+06	
U111	Am241						L		TRAC	Am241	2.86E+06	2.80E+06	
TX109	Am241						L		TRAC	Am241	2.59E+06	2.53E+06	
C103	Am241	6/3/91	R8109	1.06	6.70E+01	uCi/L	P	supernate	RAW	Am241	2.48E+06	2.46E+06	
C110	Am241	4/23/92	B08VH6	1.1833333	5.04E-02	uCi/g	L	PRIMARY RESULT	TCD	Am241	2.21E+06	2.20E+06	
S108	Am241						L		TRAC	Am241	2.22E+06	2.17E+06	
BY101	Am241						L		TRAC	Am241	2.19E+06	2.14E+06	
TY102	Am241	9/9/85	41XD0000		58.4	uCi/l	L	Liquor	Braun	Am241	2.16E+06	2.13E+06	
TY102	Am241	9/9/85					L	Drainable Liquid	Wastren	Am241	2.16E+06	2.13E+06	
AX103	Am241						L		TRAC	Am241	1.55E+06	1.52E+06	
C103	Am241	6/3/91	R8108	1.07	3.70E+01	uCi/L	P	supernate	RAW	Am241	1.37E+06	1.36E+06	
BY110	Am241						L		TRAC	Am241	1.34E+06	1.31E+06	
BY108	Am241						L		TRAC	Am241	1.34E+06	1.31E+06	
BY104	Am241						L		TRAC	Am241	1.32E+06	1.29E+06	
C110	Am241	4/23/92	B08VM5	1.0033333	3.44E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	1.27E+06	1.27E+06	
C110	Am241	4/23/92	B08VM5	1.0033333	3.41E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	1.26E+06	1.26E+06	
BY106	Am241						L		TRAC	Am241	1.26E+06	1.23E+06	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BY111	Am241						L		TRAC	Am241	1.24E+06	1.21E+06	
T107	Am241	3/1/93	B08V58	1.2	3.23E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	1.20E+06	1.19E+06	
BX105	Am241	3/4/86					P	Supernate	Wastren	Am241	1.10E+06	1.08E+06	
BX105	Am241	5/19/87	B2XDXXXX	1.294	2.96E+01	uCi/l	L	Drainable Liquor	RAW	Am241	1.10E+06	1.08E+06	
BX105	Am241	3/4/86	82XDOOXX	1.29	29.6	uCi/l	L	Liquor	Braun	Am241	1.10E+06	1.08E+06	
C110	Am241	4/23/92	B08VP9	1.1	2.86E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	1.06E+06	1.05E+06	
BY112	Am241						L		TRAC	Am241	1.07E+06	1.05E+06	
C110	Am241	4/23/92	B08VP9	1.1	2.84E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	1.05E+06	1.05E+06	
BY105	Am241						L		TRAC	Am241	1.03E+06	1.01E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
T102	Am241						L		TRAC	Am241	9.87E+05	9.65E+05	
BY107	Am241						L		TRAC	Am241	8.89E+05	8.69E+05	
TX110	Am241						L		TRAC	Am241	8.11E+05	7.93E+05	
TX118	Am241	10/16/81	RAT-TX118-5		6.4E-06	gm/l	P	Supernate	Braun	Am241	7.67E+05	7.51E+05	
B103	Am241						L		TRAC	Am241	7.59E+05	7.42E+05	
BX105	Am241	5/19/87	B1XDXXXX	1.291	1.94E+01	uCi/l	L	Drainable Liquor	RAW	Am241	7.18E+05	7.09E+05	
BX105	Am241	3/3/86	81XDOOXX	1.29	19.4	uCi/l	L	Liquor	Braun	Am241	7.18E+05	7.08E+05	
TX118	Am241	10/16/81					P	Supernate	Wastren	Am241	5.46E+05	5.35E+05	
C106	Am241	4/14/87		1.43	1.39E+01	uCi/L	L	liquid	RAW	Am241	5.14E+05	5.08E+05	
C106	Am241	5/19/86		1.22	1.39E+01	uCi/L	L	Liquid	RAW	Am241	5.14E+05	5.07E+05	
C106	Am241	5/19/86					L	Drainable Liquid	Wastren	Am241	5.14E+05	5.07E+05	
C107	Am241						L		TRAC	Am241	5.05E+05	4.93E+05	
TX118	Am241	10/16/81	RAT-TX118-4		3.93E-06	gm/l	P	Supernate	Braun	Am241	4.71E+05	4.61E+05	
C110	Am241	4/23/92			1.16E-02	uCi/mL	L		RAW	Am241	4.29E+05	4.27E+05	
C110	Am241	4/23/92	B08VM5	1.0033333	1.16E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	4.29E+05	4.27E+05	
C110	Am241	4/23/92	B08VP9	1.1	1.16E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	4.29E+05	4.27E+05	
C110	Am241	4/23/92	B08VH6	1.1833333	1.16E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	4.29E+05	4.27E+05	
C110	Am241	4/23/92			1.15E-02	uCi/ml	L		RAW	Am241	4.26E+05	4.24E+05	
C110	Am241	4/23/92	B08VM5	1.0033333	1.15E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	4.26E+05	4.24E+05	
C110	Am241	4/23/92	B08VP9	1.1	1.15E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	4.26E+05	4.24E+05	
C110	Am241	4/23/92	B08VH6	1.1833333	1.15E-02	uCi/mL	L	PRIMARY RESULT	TCD	Am241	4.26E+05	4.24E+05	
A102	Am241	5/19/87	92XDXXXX	1.51	1.10E+01	uCi/l	L	Drainable Liquor	RAW	Am241	4.07E+05	4.02E+05	
A102	Am241	3/8/86	92XDOOXX	1.51	11	uCi/l	L	Liquor	Braun	Am241	4.07E+05	4.01E+05	
T107	Am241	3/1/93	B08V16	1.02	7.33E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	2.71E+05	2.70E+05	
T107	Am241	3/1/93	B08V16	1.02	7.33E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am241	2.71E+05	2.70E+05	
B109	Am241						L		TRAC	Am241	2.71E+05	2.65E+05	
A102	Am241	5/19/87	91XDXXXX	1.52	7.13E+00	uCi/l	L	Drainable Liquor	RAW	Am241	2.64E+05	2.61E+05	
A102	Am241	3/6/86	91XDOOXX	1.52	7.13	uCi/l	L	Liquor	Braun	Am241	2.64E+05	2.60E+05	
T107	Am241	3/1/93	B08VB5	1.105	5.90E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	2.18E+05	2.18E+05	
T107	Am241	3/1/93	B08VB5	1.105	5.68E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am241	2.10E+05	2.10E+05	
C105	Am241	4/11/86					L	Drainable Liquid	Wastren	Am241	2.11E+05	2.08E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
 ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
A106	Am241	3/11/86	A1XDOOXX	1.35	4.9	uCi/l	L	Liquor	Braun	Am241	1.81E+05	1.79E+05	
A106	Am241	3/13/86	A2XDOOXX	1.36	4.74	uCi/l	L	Liquor	Braun	Am241	1.75E+05	1.73E+05	
A106	Am241	3/13/86					L	Drainable Liquid	Wastren	Am241	1.75E+05	1.73E+05	
TY103	Am241	8/21/85					L	Drainable Liquid	Wastren	Am241	1.54E+05	1.52E+05	
S111	Am241						L		TRAC	Am241	1.41E+05	1.38E+05	
U102	Am241						L		TRAC	Am241	1.35E+05	1.32E+05	
BX109	Am241	3/16/90					P	Supernate	Wastren	Am241	1.25E+05	1.24E+05	
TX111	Am241						L		TRAC	Am241	1.09E+05	1.07E+05	
S110	Am241						L		TRAC	Am241	9.56E+04	9.34E+04	
T112	Am241	10/27/87					P	Supernate	Wastren	Am241	8.07E+04	7.98E+04	
T112	Am241	10/27/87			2.18E+00	uCi/L	P	Supernatant	RAW	Am241	8.07E+04	7.97E+04	
A103	Am241	4/3/86	B2XDOOXX	1.48	1.69	uCi/l	L	Liquor	Braun	Am241	6.25E+04	6.17E+04	
A103	Am241	4/3/86					L	Drainable Liquid	Wastren	Am241	6.25E+04	6.16E+04	
A103	Am241	3/26/86	B1XDOOXX	1.476	1.47	uCi/l	L	Liquor	Braun	Am241	5.44E+04	5.36E+04	
TX109	Am241	5/20/75			1.48E+00	uCi/L	L	LIQUID	RAW	Am241	5.48E+04	5.31E+04	
C103	Am241	5/14/86	F2XDOOXX	1.08	1.31	uCi/l	L	Liquor	Braun	Am241	4.85E+04	4.78E+04	
B102	Am241						L		TRAC	Am241	4.82E+04	4.72E+04	
BX111	Am241	3/16/90	R-6042	1.2	1.20E+00	uCi/L	P	supernate	RAW	Am241	4.44E+04	4.41E+04	
BX112	Am241	3/16/90	R-6042	1.2	1.2	uCi/l	P	Supernate	Braun	Am241	4.44E+04	4.41E+04	
BX112	Am241	3/16/90					P	Supernate	Wastren	Am241	4.44E+04	4.41E+04	
T104	Am241	8/26/92	B08TQ7	1.1	9.60E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	3.55E+04	3.54E+04	
T104	Am241	8/26/92	B08TQ7	1.1	9.45E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am241	3.50E+04	3.48E+04	
A102	Am241	3/14/89					P	Supernate	Wastren	Am241	3.22E+04	3.19E+04	
A102	Am241	3/15/89		1.57	8.70E-01	uCi/L	P	Supernatant	RAW	Am241	3.22E+04	3.19E+04	
A102	Am241	3/14/89	R-4656	1.57	0.87	uCi/l	P	Supernate	Braun	Am241	3.22E+04	3.19E+04	
C104	Am241	4/15/86					L	Drainable Liquid	Wastren	Am241	3.05E+04	3.01E+04	
C107	Am241	6/3/91	R-8046	1.14	0.76	uCi/l	P	Supernate	Braun	Am241	2.81E+04	2.80E+04	
C107	Am241	6/3/91	8086	1.14	7.60E-01	uCi/L	P	supernate	RAW	Am241	2.81E+04	2.80E+04	
C107	Am241	6/3/91					L	Drainable Liquid	Wastren	Am241	2.81E+04	2.79E+04	
B106	Am241						L		TRAC	Am241	2.17E+04	2.12E+04	
TY102	Am241						L		TRAC	Am241	2.05E+04	2.00E+04	
C103	Am241	6/3/91	R-8109	1.06	0.5	uCi/l	P	Supernate	Braun	Am241	1.85E+04	1.84E+04	
C103	Am241	11/20/90	R8109	1.06	5.00E-01	uCi/L	P	supernate	RAW	Am241	1.85E+04	1.84E+04	
C103	Am241	11/20/90	R8108	1.07	4.00E-01	uCi/L	P	supernate	RAW	Am241	1.48E+04	1.47E+04	
C107	Am241	11/20/90			4.00E-01	uCi/L	P	supernate	RAW	Am241	1.48E+04	1.47E+04	
TY103	Am241	8/21/85	31XDOOOO	1.22	0.396	uCi/l	L	Liquor	Braun	Am241	1.47E+04	1.44E+04	
BX106	Am241	3/16/90	R6037	1.33	3.93E-01	uCi/L	P	Supernate	RAW	Am241	1.45E+04	1.44E+04	
TY104	Am241	8/12/85					P	Supernate	Wastren	Am241	1.13E+04	1.11E+04	
C103	Am241	6/3/91	R-8108	1.07	0.3	uCi/l	P	Supernate	Braun	Am241	1.11E+04	1.10E+04	
C103	Am241	6/3/91					P	Supernate	Wastren	Am241	1.11E+04	1.10E+04	
C110	Am241	11/20/90			3.00E-01	uCi/L	P	supernate	RAW	Am241	1.11E+04	1.10E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
 ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Densjty	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX110	Am241	3/16/90					P	Supernate	Wastren	Am241	9.62E+03	9.55E+03	
BX107	Am241	3/16/90	R-6038	1.22	0.249	uCi/l	P	Supernate	Braun	Am241	9.21E+03	9.14E+03	
BX107	Am241	3/16/90	R6038	1.22	2.49E-01	uCi/L	P	supernate liquid	RAW	Am241	9.21E+03	9.14E+03	
BX107	Am241	3/16/90					P	Supernate	Wastren	Am241	9.21E+03	9.14E+03	
BX106	Am241	3/16/90					P	Supernate	Wastren	Am241	8.81E+03	8.74E+03	
S106	Am241						L		TRAC	Am241	8.01E+03	7.83E+03	
T107	Am241	3/1/93	B08V58	1.2	2.04E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am241	7.55E+03	7.53E+03	
bx109	Am241	3/16/90	R-6039	1.34	1.77E-01	uCi/L	P	supernate	RAW	Am241	6.55E+03	6.50E+03	
BX111	Am241	3/16/90					P	Supernate	Wastren	Am241	5.11E+03	5.07E+03	
TX103	Am241						L		TRAC	Am241	4.94E+03	4.83E+03	
T101	Am241	8/1/89		1.2	1.13E-01	uCi/L	P	Supernatant	RAW	Am241	4.18E+03	4.14E+03	
T101	Am241	8/1/89					P	Supernate	Wastren	Am241	4.18E+03	4.14E+03	
C112	Am241	3/1/92	B08DT5	1.1	1.00E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am241	4.07E+03	4.05E+03	
C112	Am241	3/1/92	B08DT5	1.1	1.00E-04	uCi/g	L	PRIMARY RESULT	TCD	Am241	4.07E+03	4.05E+03	
T101	Am241	6/2/93	R-2847		1.03E-04	uCi/ml	P	Supernatant	RAW	Am241	3.81E+03	3.80E+03	
TX112	Am241						L		TRAC	Am241	3.85E+03	3.76E+03	
T105	Am241	5/28/93	B08WT3	0.9933333	8.29E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	3.07E+03	3.06E+03	
T105	Am241	5/28/93	B08WT3	0.9933333	8.27E-05	uCi/mL	L	PRIMARY RESULT	TCD	Am241	3.06E+03	3.05E+03	
T107	Am241	3/1/93	B08VB5	1.105	7.22E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	2.67E+03	2.66E+03	
T101	Am241	6/2/93	R-2926		6.99E-05	uCi/ml	P	Supernatant	RAW	Am241	2.59E+03	2.58E+03	
T107	Am241	3/1/93	B08VB5	1.105	6.79E-05	uCi/mL	L	PRIMARY RESULT	TCD	Am241	2.51E+03	2.50E+03	
BX110	Am241	5/20/75		1.414	6.00E-02	uCi/L	L	solutions	RAW	Am241	2.22E+03	2.15E+03	
T107	Am241	3/1/93	B08V58	1.2	5.08E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	1.88E+03	1.87E+03	
TY103	Am241						L		TRAC	Am241	1.61E+03	1.57E+03	
T107	Am241	3/1/93	B08V16	1.02	4.03E-05	uCi/mL	L	PRIMARY RESULT	TCD	Am241	1.49E+03	1.49E+03	
T101	Am241	6/2/93	R-2846		3.57E-05	uCi/ml	P	Supernatant	RAW	Am241	1.32E+03	1.32E+03	
T107	Am241	3/1/93	B08V16	1.02	2.67E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Am241	9.88E+02	9.85E+02	
T204	Am241	12/4/78					L	Drainable Liquid	Wastren	Am241	8.08E+02	7.87E+02	
T107	Am241	8/1/89	RAT-T107-1	1.2	0.0199	uCi/l	P	Supernate	Braun	Am241	7.36E+02	7.30E+02	
T107	Am241	8/1/89			1.99E-02	uCi/L	P	Supernatant	RAW	Am241	7.36E+02	7.30E+02	
T107	Am241	8/1/89					P	Supernate	Wastren	Am241	7.36E+02	7.30E+02	
C110	Am241	4/23/92	B08VH6	1.1833333	1.57E-05	uCi/g	L	DUPLICATE RESULT	TCD	Am241	6.87E+02	6.84E+02	
C110	Am241	4/23/92	B08VH6	1.1833333	1.54E-05	uCi/g	L	PRIMARY RESULT	TCD	Am241	6.74E+02	6.71E+02	
C110	Am241	4/23/92	B08VP9	1.1	1.57E-05	uCi/g	L	DUPLICATE RESULT	TCD	Am241	6.39E+02	6.36E+02	
C110	Am241	4/23/92	B08VP9	1.1	1.54E-05	uCi/g	L	PRIMARY RESULT	TCD	Am241	6.27E+02	6.24E+02	
C110	Am241	4/23/92	B08VM5	1.0033333	1.57E-05	uCi/g	L	DUPLICATE RESULT	TCD	Am241	5.83E+02	5.80E+02	
C110	Am241	4/23/92	B08VM5	1.0033333	1.54E-05	uCi/g	L	PRIMARY RESULT	TCD	Am241	5.72E+02	5.69E+02	
C112	Am241	3/1/92	B08DZ5	1.4	7.86E-06	uCi/g	L	DUPLICATE RESULT	TCD	Am241	4.07E+02	4.05E+02	
BX109	Am241	5/20/75		1.311	1.00E-02	uCi/L	L	solutions	RAW	Am241	3.70E+02	3.59E+02	
C112	Am241	3/1/92	B08DZ5	1.4	4.24E-06	uCi/g	L	PRIMARY RESULT	TCD	Am241	2.20E+02	2.19E+02	
TX108	Am241						L		TRAC	Am241	5.64E+01	5.51E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
 ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX105	Am241						L		TRAC	Am241	5.58E+01	5.45E+01	
C101	Am241						L		TRAC	Am241	3.89E+01	3.81E+01	
B105	Am241						L		TRAC	Am241	2.89E+01	2.83E+01	
TY105	Am241						L		TRAC	Am241	2.89E+01	2.83E+01	
B104	Am241						L		TRAC	Am241	2.87E+01	2.81E+01	
C204	Am241						L		TRAC	Am241	2.67E+01	2.61E+01	
T104	Am241						L		TRAC	Am241	2.64E+01	2.58E+01	
S104	Am241						L		TRAC	Am241	2.55E+01	2.50E+01	
BX107	Am241						L		TRAC	Am241	2.46E+01	2.41E+01	
B107	Am241						L		TRAC	Am241	2.35E+01	2.30E+01	
TY101	Am241						L		TRAC	Am241	2.30E+01	2.25E+01	
TX114	Am241						L		TRAC	Am241	2.24E+01	2.19E+01	
TX113	Am241						L		TRAC	Am241	2.12E+01	2.07E+01	
BX112	Am241						L		TRAC	Am241	1.92E+01	1.88E+01	
C111	Am241						L		TRAC	Am241	1.74E+01	1.70E+01	
TX115	Am241						L		TRAC	Am241	1.68E+01	1.64E+01	
C112	Am241						L		TRAC	Am241	1.60E+01	1.56E+01	
BX109	Am241						L		TRAC	Am241	1.57E+01	1.53E+01	
S105	Am241						L		TRAC	Am241	1.53E+01	1.50E+01	
C109	Am241						L		TRAC	Am241	1.42E+01	1.39E+01	
T109	Am241						L		TRAC	Am241	1.41E+01	1.38E+01	
TX116	Am241						L		TRAC	Am241	1.20E+01	1.17E+01	
TX102	Am241						L		TRAC	Am241	1.17E+01	1.14E+01	
T108	Am241						L		TRAC	Am241	9.70E+00	9.49E+00	
C201	Am241						L		TRAC	Am241	7.08E+00	6.92E+00	
TY104	Am241						L		TRAC	Am241	6.95E+00	6.79E+00	
A105	Am241						L		TRAC	Am241	6.21E+00	6.07E+00	
TX117	Am241						L		TRAC	Am241	4.96E+00	4.85E+00	
U110	Am241						L		TRAC	Am241	4.92E+00	4.81E+00	
U109	Am241						L		TRAC	Am241	3.25E+00	3.18E+00	
BX108	Am241						L		TRAC	Am241	1.39E+00	1.36E+00	
TX106	Am241						L		TRAC	Am241	1.28E+00	1.25E+00	
B202	Am241						L		TRAC	Am241	1.24E+00	1.21E+00	
C108	Am241						L		TRAC	Am241	3.13E-01	3.06E-01	
A106	Am241						L		TRAC	Am241	2.68E-01	2.62E-01	
TX107	Am241						L		TRAC	Am241	1.49E-01	1.46E-01	
S107	Am241						L		TRAC	Am241	3.45E-02	3.37E-02	
U108	Am241						L		TRAC	Am241	3.33E-02	3.26E-02	
U106	Am241						L		TRAC	Am241	3.11E-02	3.04E-02	
C104	Am241						L		TRAC	Am241	2.43E-02	2.37E-02	
U105	Am241						L		TRAC	Am241	2.18E-02	2.13E-02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR01]
 ASA Value: 3.66E+07 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
U103	Am241						L		TRAC	Am241	1.23E-02	1.20E-02	
U104	Am241						L		TRAC	Am241	7.82E-03	7.64E-03	
S102	Am241						L		TRAC	Am241	6.37E-03	6.23E-03	
SX101	Am241						L		TRAC	Am241	1.21E-03	1.18E-03	
AX101	Am241						L		TRAC	Am241	7.94E-04	7.77E-04	
TX104	Am241						L		TRAC	Am241	1.27E-05	1.24E-05	
TY106	Am241						L		TRAC	Am241	3.69E-06	3.61E-06	
B101	Am241						L		TRAC	Am241	1.24E-06	1.21E-06	
C203	Am241						L		TRAC	Am241	2.12E-07	2.07E-07	
C102	Am241						L		TRAC	Am241	1.27E-07	1.25E-07	
C110	Am241						L		TRAC	Am241	1.12E-08	1.10E-08	
AX102	Am241						L		TRAC	Am241	3.98E-09	3.89E-09	
BX101	Am241						L		TRAC	Am241	3.69E-11	3.61E-11	
C202	Am241						L		TRAC	Am241	5.13E-13	5.01E-13	
T107	Am241						L		TRAC	Am241	1.02E-15	1.00E-15	
C106	Am241						L		TRAC	Am241	1.83E-30	1.79E-30	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Am241	10/16/81	RAT-TX118-6		0.0000225	gm/gm	S	Supernate/Solids	Braun	Am241	4.32E+09	4.23E+09	3
ASA Value: 3.6E+08 Bq/L													22
B202	Am241						S		TRAC	Am241		2.04E+08	
B103	Am241						S		TRAC	Am241		1.82E+08	
A102	Am241	1/5/88	92XCXXXX	1.66	2.34E+00	uCi/g	I	core composite	RAW	Am241	1.44E+08	1.42E+08	
A102	Am241	3/8/86	92XC00XX	1.66	2.34	uCi/gm	G	Sludge/Composite	Braun	Am241	1.44E+08	1.42E+08	
C104	Am241	4/15/86	D1XC00XX	1.21	3.12	uCi/gm	G	Sludge/Composite	Braun	Am241	1.40E+08	1.38E+08	
C104	Am241	4/15/86	D1XC00XX	1.21	3.11	uCi/gm	G	Sludge/Composite	Braun	Am241	1.39E+08	1.37E+08	
C112	Am241	3/1/92	B08DM7	1.6	1.84E+00	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.09E+08	1.08E+08	
A106	Am241						S		TRAC	Am241		1.04E+08	
BY110	Am241						S		TRAC	Am241		9.66E+07	
BX105	Am241	1/5/88	81XCXXXX	1.58	1.65E+00	uCi/g	I	Core composite	RAW	Am241	9.65E+07	9.54E+07	
B101	Am241						S		TRAC	Am241		8.78E+07	
C105	Am241	4/11/86					G	sludge	Wastren	Am241	8.70E+07	8.58E+07	
C105	Am241	5/8/87	C1XCXXXX	1.55	1.51E+00	uCi/g	I	core	RAW	Am241	8.66E+07	8.55E+07	
C105	Am241	4/11/86	C1XC00XX	1.55	1.51	uCi/gm	G	Sludge/Composite	Braun	Am241	8.66E+07	8.54E+07	
C105	Am241	4/11/86	C1XC00XX	1.55	1.5	uCi/gm	G	Sludge/Composite	Braun	Am241	8.60E+07	8.48E+07	
C103	Am241	9/22/86		1.54	1.44E+00	uCi/g	I	core	RAW	Am241	8.21E+07	8.10E+07	
C103	Am241	5/14/86	F2XC00XX	1.54	1.44	uCi/gm	G	Sludge/Composite	Braun	Am241	8.21E+07	8.09E+07	
C112	Am241	3/1/92	B08DY1	2	1.06E+00	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.84E+07	7.81E+07	
C112	Am241	3/1/92	B08DY1	2	1.03E+00	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.62E+07	7.59E+07	
C112	Am241	3/1/92	B08DY1	2	9.39E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.95E+07	6.92E+07	
C106	Am241						S		TRAC	Am241		6.91E+07	
C112	Am241	3/1/92	B08DM7	1.6	1.13E+00	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.69E+07	6.66E+07	
BX104	Am241	1/5/88	72XCXXXX	1.76	1.03E+00	uCi/g	I	Core composite	RAW	Am241	6.71E+07	6.63E+07	
C112	Am241	3/1/92	B08DY1	2	8.48E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.28E+07	6.25E+07	
AX104	Am241						S		TRAC	Am241		6.17E+07	
C106	Am241	5/19/86			1.05E+00	uCi/g	S	Solids	RAW	Am241	6.22E+07	6.13E+07	
C112	Am241	3/1/92	B08DY1	2	8.22E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.08E+07	6.06E+07	
C112	Am241	3/1/92	B08DY1	2	8.06E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.96E+07	5.94E+07	
C103	Am241	5/14/86	F2XC00XX	1.54	1.05	uCi/gm	G	Sludge/Composite	Braun	Am241	5.98E+07	5.90E+07	
C112	Am241	3/1/92	B08DM7	1.6	9.99E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.91E+07	5.89E+07	
C104	Am241						S		TRAC	Am241		5.76E+07	
A106	Am241	1/5/88	A2XCXXXX	1.54	1.01E+00	uCi/g	I	Core composite	RAW	Am241	5.75E+07	5.69E+07	
C102	Am241						S		TRAC	Am241		5.57E+07	
C106	Am241	4/17/87		1.43	1.05E+00	uCi/g	S	solid	RAW	Am241	5.56E+07	5.49E+07	
C106	Am241	4/14/87		1.43	1.05E+00	uCi/g	I	Composite	RAW	Am241	5.56E+07	5.49E+07	
C106	Am241	5/19/86					G	sludge	Wastren	Am241	5.56E+07	5.48E+07	
C106	Am241	5/19/86	G1XC00XX	1.43	1.05	uCi/gm	G	Sludge/Composite	Braun	Am241	5.56E+07	5.48E+07	
T105	Am241	5/28/93	B08WT2	0.89	1.64E+00	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.40E+07	5.39E+07	
AX102	Am241						S		TRAC	Am241		5.35E+07	
C112	Am241	3/1/92	B08DY1	2	7.19E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.32E+07	5.30E+07	
TY104	Am241						S		TRAC	Am241		5.07E+07	
BX101	Am241						S		TRAC	Am241		4.90E+07	
C112	Am241	3/1/92	B08DT4	1.6	7.58E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.49E+07	4.47E+07	
C109	Am241	9/1/92	B08T69	1.6	7.50E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.44E+07	4.42E+07	
TY105	Am241						S		TRAC	Am241		4.40E+07	
C112	Am241	3/1/92	B08DM7	1.6	7.45E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.41E+07	4.39E+07	
S104	Am241	8/2/92			7.32E-01	uCi/g	S		RAW	Am241	4.33E+07	4.32E+07	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids (Sketch ES-VAL-CR02)
 ASA Value: 3.6E+08 Bq/L

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Characterization Sample Information										Radionuclide Information		
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed
S104	Am241	8/1/92	B08S46	1.6	7.32E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.33E+07	4.32E+07
T105	Am241	5/28/93	B08WT2	0.89	1.30E+00	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.28E+07	4.27E+07
S104	Am241	8/2/92			7.22E-01	uCi/g	S		RAW	Am241	4.27E+07	4.26E+07
S104	Am241	8/1/92	B08S46	1.6	7.22E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.27E+07	4.26E+07
S104	Am241	8/2/92			7.17E-01	uCi/g	S		RAW	Am241	4.24E+07	4.23E+07
S104	Am241	8/1/92	B08S46	1.6	7.17E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.24E+07	4.23E+07
S104	Am241	8/2/92			7.03E-01	uCi/g	S		RAW	Am241	4.16E+07	4.15E+07
S104	Am241	8/1/92	B08S46	1.6	7.03E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.16E+07	4.15E+07
T104	Am241	11/13/79	RAT-T104-1	1.31	2.7E-07	gm/gm	G	Sludge	Braun	Am241	4.24E+07	4.14E+07
T104	Am241	11/13/79		1.31	2.70E-07	g/g	I	Composite	RAW	Am241	4.24E+07	4.14E+07
S104	Am241	8/2/92			6.99E-01	uCi/g	S		RAW	Am241	4.14E+07	4.12E+07
S104	Am241	8/1/92	B08TF6	1.6	6.99E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.14E+07	4.12E+07
S104	Am241	8/2/92			6.95E-01	uCi/g	S		RAW	Am241	4.11E+07	4.10E+07
S104	Am241	8/1/92	B08TF7	1.6	6.95E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.11E+07	4.10E+07
S104	Am241	8/2/92			6.90E-01	uCi/g	S		RAW	Am241	4.08E+07	4.07E+07
S104	Am241	8/1/92	B08TF7	1.6	6.90E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.08E+07	4.07E+07
C112	Am241	3/1/92	B08DM7	1.6	6.86E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.06E+07	4.04E+07
S104	Am241	8/2/92			6.79E-01	uCi/g	S		RAW	Am241	4.02E+07	4.00E+07
S104	Am241	8/1/92	B08TF6	1.6	6.79E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.02E+07	4.00E+07
B110	Am241	8/9/89	89-0466-A-2	1.355	8.05E-01	uCi/g	I	core 2	RAW	Am241	4.04E+07	4.00E+07
B110	Am241	8/9/89	89-0466-A-1	1.355	8.00E-01	uCi/g	I	core 2	RAW	Am241	4.01E+07	3.97E+07
C109	Am241	9/1/92	B08T69	1.6	6.70E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.97E+07	3.95E+07
A106	Am241	1/5/88	A1XCXXX	1.56	0.637	uCi/gm	G	Core composite	RAW	Am241	3.68E+07	3.63E+07
A106	Am241	3/11/86	A1XC00XX	1.56	0.637	uCi/gm	G	Sludge/Composite	Braun	Am241	3.68E+07	3.63E+07
C112	Am241	3/1/92	B08DT4	1.6	6.13E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.63E+07	3.61E+07
C109	Am241	9/1/92	B08T15	1.2	8.09E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.59E+07	3.58E+07
C109	Am241	9/1/92	B08T63	1.6	5.90E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.49E+07	3.48E+07
C109	Am241	9/1/92	B08T63	1.6	5.60E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.32E+07	3.30E+07
C112	Am241	3/1/92	B08DM7	1.6	5.56E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.29E+07	3.28E+07
BX109	Am241						S		TRAC	Am241	3.25E+07	
C112	Am241	3/1/92	B08DM7	1.6	5.43E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.21E+07	3.20E+07
C112	Am241	3/1/92	B08DM7	1.6	5.38E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.18E+07	3.17E+07
A101	Am241						S		TRAC	Am241	3.11E+07	
B110	Am241	8/9/89	89-0465-A-2	1.355	6.23E-01	uCi/g	I	core 2	RAW	Am241	3.12E+07	3.09E+07
C110	Am241						S		TRAC	Am241	3.07E+07	
C109	Am241	9/1/92	B08T15	1.2	6.92E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.09E+07	3.08E+07
B110	Am241	8/9/89	89-0465-A-1	1.355	6.16E-01	uCi/g	I	core 2	RAW	Am241	3.09E+07	3.08E+07
C109	Am241	9/1/92	B08T16	1.3	6.30E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.03E+07	3.02E+07
C109	Am241	9/1/92	B08T16	1.3	6.30E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.03E+07	3.02E+07
B110	Am241	4/1/90		1.24	6.23E-01	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.86E+07	2.83E+07
B110	Am241	4/1/90		1.24	6.16E-01	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.83E+07	2.80E+07
BY108	Am241						S		TRAC	Am241	2.77E+07	
C109	Am241	9/1/92	B08T15	1.2	6.00E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.66E+07	2.65E+07
SX106	Am241	4/18/78	8301	1.37	1.65E-07	gm/gm	S	Supernate/Solids	Braun	Am241	2.71E+07	2.64E+07
C109	Am241	9/1/92	B08T16	1.3	5.50E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.65E+07	2.64E+07
C109	Am241	9/1/92	B08T17	1.2	5.94E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.64E+07	2.63E+07
S104	Am241	8/2/92			4.39E-01	uCi/g	S		RAW	Am241	2.60E+07	2.59E+07
S104	Am241	8/1/92	B08TJ5	1.6	4.39E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.60E+07	2.59E+07
SX106	Am241	4/18/78	8301	1.33	1.65E-07	gm/gm	S	Supernate/Solids	Braun	Am241	2.63E+07	2.56E+07
SX106	Am241	4/18/78		1.33	1.65E-07	g/g	S	Solids(KOH Fusion)	RAW	Am241	2.63E+07	2.56E+07

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4/14/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information		ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
S104	Am241	8/2/92			4.34E-01	uCi/g	S		RAW	Am241	2.57E+07	2.56E+07			
S104	Am241	8/1/92	B08TJ4	1.6	4.34E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.57E+07	2.56E+07			
S104	Am241	8/2/92			4.32E-01	uCi/g	S		RAW	Am241	2.56E+07	2.55E+07			
S104	Am241	8/1/92	B08TJ4	1.6	4.32E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.56E+07	2.55E+07			
A104	Am241						S		TRAC	Am241		2.52E+07			
S104	Am241	8/2/92			4.24E-01	uCi/g	S		RAW	Am241	2.51E+07	2.50E+07			
S104	Am241	8/1/92	B08TJ5	1.6	4.24E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.51E+07	2.50E+07			
C107	Am241						S		TRAC	Am241		2.44E+07			
C111	Am241						S		TRAC	Am241		2.43E+07			
B102	Am241						S		TRAC	Am241		2.40E+07			
S104	Am241	6/24/93	F-2177		0.123	ugm/gm	G	Sludge	Braun	Am241	2.36E+07	2.35E+07			
C109	Am241	9/1/92	B08T63	1.6	3.90E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.31E+07	2.30E+07			
T107	Am241	3/1/93	B08VD2	1.6	3.85E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.28E+07	2.27E+07			
C105	Am241						S		TRAC	Am241		2.27E+07			
C109	Am241	9/1/92	B08T15	1.2	5.10E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.26E+07	2.26E+07			
BX105	Am241	1/5/88	82XCXXXX	1.79	3.36E-01	uCi/g	I	Core composite	RAW	Am241	2.23E+07	2.20E+07			
C112	Am241	3/1/92	B08DM6	1.5	3.85E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.14E+07	2.13E+07			
C109	Am241	9/1/92	B08T15	1.2	4.80E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.13E+07	2.12E+07			
C109	Am241	9/1/92	B08T15	1.2	4.80E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.13E+07	2.12E+07			
BY104	Am241						S		TRAC	Am241		2.12E+07			
SX111	Am241						S		TRAC	Am241		2.10E+07			
C112	Am241	3/1/92	B08DM7	1.6	3.52E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.08E+07	2.07E+07			
T203	Am241						S		TRAC	Am241		2.06E+07			
T107	Am241	3/1/93	B08VD2	1.6	3.49E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.07E+07	2.06E+07			
C109	Am241	9/1/92	B08T17	1.2	4.46E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.98E+07	1.97E+07			
C112	Am241	3/1/92	B08DM7	1.6	3.30E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.95E+07	1.94E+07			
B204	Am241						S		TRAC	Am241		1.94E+07			
C112	Am241						S		TRAC	Am241		1.92E+07			
T105	Am241	5/28/93	B08WT4	1.745	2.96E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.91E+07	1.91E+07			
SX112	Am241						S		TRAC	Am241		1.80E+07			
BY107	Am241						S		TRAC	Am241		1.80E+07			
SX107	Am241						S		TRAC	Am241		1.80E+07			
C112	Am241	3/1/92	B08DM7	1.6	2.99E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.77E+07	1.76E+07			
C112	Am241	3/1/92	B08DM7	1.6	2.86E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.69E+07	1.69E+07			
C110	Am241	4/23/92	B08VN6	1.6	2.80E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.66E+07	1.65E+07			
C110	Am241	4/23/92	B08VN6	1.6	2.76E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.63E+07	1.63E+07			
S104	Am241	8/2/92			2.69E-01	uCi/g	S		RAW	Am241	1.59E+07	1.59E+07			
S104	Am241	8/1/92	B08S48	1.6	2.69E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.59E+07	1.59E+07			
S104	Am241	8/2/92			2.67E-01	uCi/g	S		RAW	Am241	1.58E+07	1.57E+07			
S104	Am241	8/1/92	B08TL3	1.6	2.67E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.58E+07	1.57E+07			
S104	Am241	8/2/92			2.66E-01	uCi/g	S		RAW	Am241	1.57E+07	1.57E+07			
S104	Am241	8/1/92	B08TL3	1.6	2.66E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.57E+07	1.57E+07			
C110	Am241	4/23/92	B08VP1	1.6	2.66E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.57E+07	1.57E+07			
B110	Am241	4/1/90		1.3	3.27E-01	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.57E+07	1.56E+07			
C112	Am241	3/1/92	B08DM6	1.5	2.82E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.57E+07	1.56E+07			
TY103	Am241						S		TRAC	Am241		1.56E+07			
S104	Am241	8/2/92			2.62E-01	uCi/g	S		RAW	Am241	1.55E+07	1.55E+07			
S104	Am241	8/1/92	B08S48	1.6	2.62E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.55E+07	1.55E+07			
S104	Am241	8/1/92	B08TL4	1.6	2.62E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.55E+07	1.55E+07			
C110	Am241	4/23/92	B08VP1	1.6	2.62E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.55E+07	1.54E+07			

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
BX104	Am241	1/5/88	71XCXXXX	1.85	2.27E-01	uCi/g	I	Core composite	RAW	Am241	1.55E+07	1.54E+07	
C110	Am241	4/23/92	B08VP9	1.6	2.60E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.54E+07	1.53E+07	
BX104	Am241	2/14/86	71XCOOXX	1.85	0.227	uCi/gm	G	Sludge/Composite	Braun	Am241	1.55E+07	1.53E+07	
C112	Am241	3/1/92	B08DN6	1.3	3.18E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.53E+07	1.52E+07	
S104	Am241	8/2/92			2.58E-01	uCi/g	S		RAW	Am241	1.53E+07	1.52E+07	
S104	Am241	8/1/92	B08TL4	1.6	2.58E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.53E+07	1.52E+07	
C112	Am241	3/1/92	B08DM7	1.6	2.51E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.49E+07	1.48E+07	
C109	Am241	9/1/92	B08T63	1.6	2.50E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.48E+07	1.47E+07	
C110	Am241	4/23/92	B08VP9	1.6	2.50E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.48E+07	1.47E+07	
C110	Am241	4/23/92	B08VP9	1.6	2.50E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.48E+07	1.47E+07	
C110	Am241	4/23/92	B08VP9	1.6	2.50E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.48E+07	1.47E+07	
BY105	Am241						S		TRAC	Am241		1.46E+07	
S107	Am241						S		TRAC	Am241		1.42E+07	
C112	Am241	3/1/92	B08DM7	1.6	2.41E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.43E+07	1.42E+07	
B110	Am241	4/1/90		1.3	2.97E-01	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.43E+07	1.42E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.92E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.40E+07	1.40E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.89E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.39E+07	1.38E+07	
T104	Am241						S		TRAC	Am241		1.37E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.85E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.37E+07	1.36E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.81E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.35E+07	1.35E+07	
T107	Am241	3/1/93	B08VDB	1.42	2.53E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.33E+07	1.33E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.73E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.31E+07	1.31E+07	
T102	Am241	3/1/93	B08732	1.3166667	2.69E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.31E+07	1.31E+07	
C112	Am241	3/1/92	B08DN6	1.3	2.72E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.31E+07	1.30E+07	
C110	Am241	4/23/92	B08VJ5	1.6	2.20E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.30E+07	1.30E+07	
SX114	Am241						S		TRAC	Am241		1.28E+07	
C110	Am241	4/23/92	B08VK1	1.6	2.16E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.28E+07	1.27E+07	
T107	Am241	3/1/93	B08V39	1.57	2.16E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.25E+07	1.25E+07	
T105	Am241	5/28/93	B08WT4	1.745	1.93E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.25E+07	1.24E+07	
T107	Am241	3/1/93	B08V39	1.57	2.13E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.24E+07	1.23E+07	
BY106	Am241						S		TRAC	Am241		1.23E+07	
C110	Am241	4/23/92	B08VK1	1.6	2.08E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.23E+07	1.23E+07	
C110	Am241	4/23/92	B08VJ5	1.6	2.05E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.21E+07	1.21E+07	
C110	Am241	4/23/92	B08W47	1.6	2.03E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.20E+07	1.20E+07	
T102	Am241	3/1/93	B08732	1.3166667	2.46E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.20E+07	1.19E+07	
C109	Am241	9/1/92	B08T17	1.2	2.70E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.20E+07	1.19E+07	
T102	Am241	3/1/93	B08732	1.3166667	2.44E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.19E+07	1.19E+07	
C110	Am241	4/23/92	B08W47	1.6	2.01E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.19E+07	1.18E+07	
AX101	Am241						S		TRAC	Am241		1.18E+07	
C109	Am241	9/1/92	B08T17	1.2	2.60E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.15E+07	1.15E+07	
T102	Am241	3/1/93	B08732	1.3166667	2.33E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.14E+07	1.13E+07	
S108	Am241						S		TRAC	Am241		1.12E+07	
S104	Am241	8/2/92			1.79E-01	uCi/g	S		RAW	Am241	1.06E+07	1.06E+07	
S104	Am241	8/1/92	B08S50	1.6	1.79E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.06E+07	1.06E+07	
C110	Am241	4/23/92	B08VH6	1.6	1.76E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.04E+07	1.04E+07	
SX108	Am241						S		TRAC	Am241		1.04E+07	
C110	Am241	4/23/92	B08VH6	1.6	1.75E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.04E+07	1.03E+07	
C110	Am241	4/23/92	B08VH6	1.6	1.75E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.04E+07	1.03E+07	
C109	Am241	9/1/92	B08T17	1.2	2.30E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.02E+07	1.02E+07	
S104	Am241	8/2/92			1.71E-01	uCi/g	S		RAW	Am241	1.01E+07	1.01E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
ASA Value: 3.6E+08 Bq/L

Tank Waste Characterization Sample Information										Radionuclide Information		
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed
S104	Am241	8/1/92	B08S50	1.6	1.71E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.01E+07	1.01E+07
C110	Am241	4/23/92	B08VH6	1.6	1.70E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.01E+07	1.00E+07
S104	Am241	8/2/92			1.69E-01	uCi/g	S		RAW	Am241	1.00E+07	9.97E+06
S104	Am241	8/1/92	B08S50	1.6	1.69E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.00E+07	9.97E+06
S104	Am241	8/2/92			1.63E-01	uCi/g	S		RAW	Am241	9.85E+06	9.61E+06
S104	Am241	8/1/92	B08S50	1.6	1.63E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.85E+06	9.61E+06
SX110	Am241						S		TRAC	Am241	9.50E+06	
C201	Am241	12/4/78	T-3421	1.16	6.43E-08	gm/gm	G	Sludge	Braun	Am241	8.95E+06	8.72E+06
T105	Am241	5/28/93	B08WT4	1.745	1.34E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.65E+06	8.63E+06
T107	Am241	3/1/93	B08VB9	1.19	1.92E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.45E+06	8.43E+06
T107	Am241	3/1/93	B08VB9	1.19	1.92E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.45E+06	8.43E+06
U110	Am241	12/1/89		1.54	1.49E-01	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	8.49E+06	8.42E+06
T105	Am241	5/28/93	B08WT4	1.745	1.30E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.39E+06	8.37E+06
T105	Am241	5/28/93	B08WT4	1.745	1.29E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.33E+06	8.31E+06
B111	Am241	10/1/91	B08XC1	1.6	1.40E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.29E+06	8.24E+06
T105	Am241	5/28/93	B08WT4	1.745	1.28E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.07E+06	8.05E+06
S104	Am241	8/2/92			1.35E-01	uCi/g	S		RAW	Am241	7.99E+06	7.96E+06
S104	Am241	8/1/92	B08TJ5	1.6	1.35E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.99E+06	7.96E+06
S104	Am241	4/13/90					G	Sludge	Wastren	Am241	7.96E+06	7.90E+06
B111	Am241	10/1/91	B08XC1	1.6	1.30E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.70E+06	7.66E+06
U110	Am241	9/19/89	89-040/1		0.13	uCi/gm	G	Sludge/Composite	Braun	Am241	7.70E+06	7.63E+06
S104	Am241	8/2/92			1.29E-01	uCi/g	S		RAW	Am241	7.64E+06	7.61E+06
S104	Am241	8/1/92	B08TL3	1.6	1.29E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.64E+06	7.61E+06
U110	Am241	11/30/89	89-073/4/5/6		0.128	uCi/gm	G	Sludge/Composite	Braun	Am241	7.58E+06	7.52E+06
A103	Am241						S		TRAC	Am241	7.45E+06	
S104	Am241	8/2/92			1.25E-01	uCi/g	S		RAW	Am241	7.40E+06	7.37E+06
S104	Am241	8/1/92	B08S48	1.6	1.25E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.40E+06	7.37E+06
B111	Am241	3/8/93	92-04062H-11T		0.124	uCi/gm	G	Sludge	Braun	Am241	7.34E+06	7.32E+06
T107	Am241	3/1/93	B08T22	1.2872727	1.54E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.33E+06	7.31E+06
S104	Am241	8/2/92			1.24E-01	uCi/g	S		RAW	Am241	7.34E+06	7.31E+06
S104	Am241	8/1/92	B08S48	1.6	1.24E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.34E+06	7.31E+06
A103	Am241	3/3/87	B2XCXXX	1.35	1.47E-01	uCi/g	I	Core composite	RAW	Am241	7.34E+06	7.25E+06
A103	Am241	4/3/86	B2XC00XX	1.35	0.147	uCi/gm	G	Sludge/Composite	Braun	Am241	7.34E+06	7.24E+06
A103	Am241	4/3/86					K	Saltcake	Wastren	Am241	7.34E+06	7.24E+06
T107	Am241	3/1/93	B08T22	1.2872727	1.51E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.19E+06	7.17E+06
S110	Am241						S		TRAC	Am241	7.16E+06	
S104	Am241	8/2/92			1.21E-01	uCi/g	S		RAW	Am241	7.16E+06	7.14E+06
S104	Am241	8/1/92	B08TJ4	1.6	1.21E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.16E+06	7.14E+06
S104	Am241	8/2/92			1.18E-01	uCi/g	S		RAW	Am241	6.99E+06	6.98E+06
S104	Am241	8/1/92	B08TF7	1.6	1.18E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.99E+06	6.98E+06
S104	Am241	8/1/92	B08TJ4	1.6	1.18E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.99E+06	6.98E+06
B110	Am241	4/1/90		1.36	1.39E-01	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	6.99E+06	6.94E+06
SX115	Am241						S		TRAC	Am241	6.93E+06	
S104	Am241	8/2/92			1.17E-01	uCi/g	S		RAW	Am241	6.93E+06	6.90E+06
S104	Am241	8/1/92	B08TL3	1.6	1.17E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.93E+06	6.90E+06
B110	Am241	4/1/90		1.36	1.37E-01	uCi/g	I	PRIMARY	B110 - Core Data	Am241	6.91E+06	6.88E+06
S104	Am241	8/2/92			1.16E-01	uCi/g	S		RAW	Am241	6.87E+06	6.84E+06
S104	Am241	8/1/92	B08TF7	1.6	1.16E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.87E+06	6.84E+06
S104	Am241	8/1/92	B08TJ5	1.6	1.16E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.87E+06	6.84E+06
B110	Am241	4/1/90		1.36	1.36E-01	uCi/g	I	PRIMARY	B110 - Core Data	Am241	6.85E+06	6.80E+06

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TY106	Am241	9/4/85		1.34	1.39E-01	uCi/g	I	Core Composite	RAW	Am241	6.89E+08	6.79E+08	
S104	Am241	8/2/92			1.13E-01	uCi/g	S		RAW	Am241	6.69E+08	6.66E+08	
S104	Am241	8/1/92	B08TL4	1.6	1.13E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.69E+08	6.68E+08	
U110	Am241						S		TRAC	Am241		6.66E+08	
BY104	Am241	11/12/92					K	Saltcake	Wastren	Am241	6.67E+08	6.65E+08	
B110	Am241	4/1/90		1.36	1.32E-01	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	6.64E+08	6.59E+08	
C101	Am241						S		TRAC	Am241		6.56E+08	
S104	Am241	6/24/93	F-2171		0.111	uCi/gm	G	Sludge	Braun	Am241	6.57E+08	6.56E+08	
S104	Am241	8/2/92			1.11E-01	uCi/g	S		RAW	Am241	6.57E+08	6.55E+08	
S104	Am241	8/1/92	B08TF6	1.6	1.11E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.57E+08	6.55E+08	
S104	Am241	8/1/92	B08TF6	1.6	1.11E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.57E+08	6.55E+08	
TY106	Am241	9/4/85		1.31	1.35E-01	uCi/g	I	Core Composite	RAW	Am241	6.54E+08	6.45E+08	
U110	Am241	12/1/89		1.3	1.35E-01	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	6.49E+08	6.44E+08	
S104	Am241	8/2/92			1.09E-01	uCi/g	S		RAW	Am241	6.45E+08	6.43E+08	
S104	Am241	8/1/92	B08TL4	1.6	1.09E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.45E+08	6.43E+08	
T107	Am241	3/1/93	B08V43	1.15	1.51E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.43E+08	6.41E+08	
C112	Am241	3/1/92	B08DY1	2	8.69E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.43E+08	6.40E+08	
TY101	Am241						S		TRAC	Am241		6.31E+08	
T107	Am241	3/1/93	B08V43	1.15	1.48E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.30E+08	6.28E+08	
T105	Am241	5/28/93	B08WT4	1.745	9.57E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.18E+08	6.16E+08	
U110	Am241	12/1/89		1.3	1.28E-01	uCi/g	I	PRIMARY	U110 - Core Data	Am241	6.16E+08	6.11E+08	
BY104	Am241	11/12/92	R-1773		0.103	uCi/gm	T	Crust	Braun	Am241	6.10E+08	6.08E+08	
BY104	Am241	10/26/92	riser 5		1.03E-01	uCi/g	S	wet solids	RAW	Am241	6.10E+08	6.08E+08	
T107	Am241	3/1/93	B08V44	1.1	1.48E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.02E+08	6.01E+08	
TY104	Am241	9/18/80	RAT-TY104-2	1.57	3.25E-08	gm/gm	G	Sludge	Braun	Am241	6.12E+08	5.98E+08	
B110	Am241	4/1/90		1.36	1.18E-01	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	5.93E+08	5.89E+08	
BX107	Am241	6/1/92	B08X71	1.6	9.80E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.80E+08	5.78E+08	
T107	Am241	3/1/93	B08V43	1.15	1.36E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.79E+08	5.77E+08	
BX107	Am241	6/1/92	B08X71	1.6	9.70E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.74E+08	5.72E+08	
B110	Am241	4/1/90		1.36	1.13E-01	uCi/g	I	PRIMARY	B110 - Core Data	Am241	5.70E+08	5.65E+08	
T107	Am241	3/1/93	B08V44	1.1	1.39E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.66E+08	5.64E+08	
B111	Am241	10/1/91	B08XC0	1.6	9.31E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.51E+08	5.48E+08	
B110	Am241	8/9/89	90-0715-A-2	1.355	2.41E+05	dpm/g	I	core 4	RAW	Am241	5.45E+08	5.41E+08	
T105	Am241	5/28/93	B08WT2	0.89	1.64E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.40E+08	5.39E+08	
BX107	Am241	6/1/92	B08X70	1.6	9.12E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.40E+08	5.38E+08	
T105	Am241	5/28/93	B08WT2	0.89	1.63E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.37E+08	5.35E+08	
T107	Am241	3/1/93	B08V43	1.15	1.26E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.36E+08	5.35E+08	
U110	Am241	11/10/89	89-043/4/5		0.09	uCi/gm	G	Sludge/Composite	Braun	Am241	5.33E+08	5.28E+08	
BX107	Am241	6/1/92	B08X70	1.6	8.96E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.30E+08	5.28E+08	
T105	Am241	5/28/93	B08WT4	1.745	8.18E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.28E+08	5.27E+08	
B111	Am241	10/1/91	B08XC0	1.6	8.80E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.21E+08	5.18E+08	
U110	Am241	3/1/93			8.71E-02	uCi/g	I	Core Composite, KOH Fusion	RAW	Am241	5.16E+08	5.14E+08	
U110	Am241	12/1/89		1.54	8.95E-02	uCi/g	I	PRIMARY	U110 - Core Data	Am241	5.10E+08	5.06E+08	
C108	Am241						S		TRAC	Am241		5.02E+08	
S101	Am241						S		TRAC	Am241		5.00E+08	
T107	Am241	3/1/93	B08VD8	1.42	9.49E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.99E+08	4.97E+08	
B111	Am241	10/1/91	B08XC0	1.6	8.43E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.99E+08	4.96E+08	
U110	Am241	12/1/89		1.04	1.30E-01	uCi/g	I	PRIMARY	U110 - Core Data	Am241	5.00E+08	4.96E+08	
B111	Am241	4/15/93	93-4316H1		0.084	uCi/gm	G	Sludge	Braun	Am241	4.97E+08	4.96E+08	
B111	Am241	10/1/91	B08XC2	1.6	8.40E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.97E+08	4.95E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
ASA Value: 3.6E+08 Bq/L

Tank Waste Characterization Sample Information										Radionuclide Information		
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Decayed ID
B111	Am241	10/1/91	B08XB9	1	1.34E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.96E+06	4.93E+06
TX109	Am241						S		TRAC	Am241		4.87E+08
SX109	Am241						S		TRAC	Am241		4.85E+08
BX107	Am241	6/1/92	B08SD6	0.9956	1.30E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.79E+06	4.77E+06
BX107	Am241	6/1/92	B08SD6	0.9956	1.30E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.79E+06	4.77E+06
B202	Am241	12/31/91					G	Sludge	Wastren	Am241	4.75E+06	4.73E+06
A103	Am241	2/24/87	B1XC00XX	1.34	9.57E-02	uCi/g	I	Core composite	RAW	Am241	4.74E+06	4.69E+06
A103	Am241	3/26/86	B1XC00XX	1.34	0.0957	uCi/gm	G	Sludge/Composite	Braun	Am241	4.74E+06	4.68E+06
TY106	Am241	9/4/85		1.27	1.01E-01	uCi/g	I	Core Composite	RAW	Am241	4.75E+06	4.68E+06
B110	Am241	4/1/90		1.34	9.40E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	4.66E+06	4.62E+06
B111	Am241	10/1/91	B08XC1	1.6	7.80E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.65E+06	4.59E+06
A102	Am241	2/24/87	91XCXXXX	1.52	8.20E-02	uCi/g	I	core composite	RAW	Am241	4.65E+06	4.59E+06
B111	Am241	10/1/91	B08XB9	1	1.24E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.59E+06	4.56E+06
T111	Am241	11/1/91	B08ST5	0.88	1.40E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.56E+06	4.54E+06
B111	Am241	10/1/91	B08XC1	1.6	7.67E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.54E+06	4.52E+06
T111	Am241	11/1/91	B08ST5	0.88	1.39E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.53E+06	4.50E+06
B202	Am241	6/7/91	B08C11	1.6	7.52E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.45E+06	4.43E+06
T111	Am241	8/7/92	J-398	0.88	0.136	uCi/gm	G	Sludge	Braun	Am241	4.43E+06	4.41E+06
BX107	Am241	6/1/92	B08X97	1.6	7.48E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.43E+06	4.41E+06
B110	Am241	4/1/90		1.36	8.83E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	4.44E+06	4.41E+06
T111	Am241	11/1/91	B08ST5	0.88	1.36E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.43E+06	4.41E+06
T111	Am241	11/1/91	B08ST5	0.88	1.36E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.43E+06	4.41E+06
BX107	Am241	6/1/92	B08X97	1.6	7.47E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.42E+06	4.40E+06
B111	Am241	10/1/91	B08XB9	1	1.18E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.37E+06	4.34E+06
B202	Am241	6/7/91	B08C11	1.6	7.34E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.35E+06	4.32E+06
A103	Am241	3/26/86	B1XC00XX	1.34	0.088	uCi/gm	G	Sludge/Composite	Braun	Am241	4.36E+06	4.30E+06
U110	Am241	12/4/89	89-082/3/4		0.0731	uCi/gm	G	Sludge/Composite	Braun	Am241	4.33E+06	4.29E+06
T107	Am241	3/1/93	B08VR2	1.735	6.69E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.29E+06	4.28E+06
B202	Am241	6/7/91	B08C11	1.6	7.23E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.28E+06	4.26E+06
BX107	Am241	6/1/92	B08X98	1.6	7.19E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.26E+06	4.24E+06
SX101	Am241						S		TRAC	Am241		4.21E+06
B202	Am241	6/7/91	B08C11	1.6	7.15E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.23E+06	4.21E+06
T107	Am241	3/1/93	B08VR2	1.735	6.57E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.22E+06	4.21E+06
B202	Am241	6/7/91	B08C10	1.6	7.14E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.23E+06	4.20E+06
U110	Am241	12/1/89		1.675	6.83E-02	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	4.23E+06	4.20E+06
B110	Am241	4/1/90		1.36	8.29E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	4.17E+06	4.14E+06
B202	Am241	6/7/91	B08C10	1.6	7.03E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.16E+06	4.14E+06
B111	Am241	10/1/91	B08XB9	1	1.11E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.11E+06	4.09E+06
B202	Am241	6/7/91	B08C05	1.6	6.93E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.10E+06	4.08E+06
B111	Am241	10/1/91	B08XC2	1.6	6.90E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.08E+06	4.06E+06
BX107	Am241	6/1/92	B08X98	1.6	6.89E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.08E+06	4.06E+06
T102	Am241	3/1/93	B08732	1.3166667	8.29E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.04E+06	4.03E+06
B111	Am241	10/1/91	B08XC3	1.6	6.80E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.03E+06	4.00E+06
B110	Am241	8/9/89	90-0715-A-1	1.355	1.73E+05	dpm/g	I	core 4	RAW	Am241	3.91E+06	3.88E+06
T107	Am241	3/1/93	B08VB9	1.19	8.73E-02	uCi/gm	S	DUPLICATE RESULT	TCD	Am241	3.84E+06	3.83E+06
U110	Am241	12/3/89	89-077/8/9/0		0.0852	uCi/gm	G	Sludge/Composite	Braun	Am241	3.86E+06	3.83E+06
B110	Am241	4/1/90		1.34	7.70E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	3.82E+06	3.79E+06
U110	Am241	12/1/89		1.675	6.16E-02	uCi/g	I	PRIMARY	U110 - Core Data	Am241	3.82E+06	3.79E+06
B111	Am241	4/15/93	93-4312H1		0.064	uCi/gm	G	Sludge	Braun	Am241	3.79E+06	3.78E+06
B202	Am241	6/7/91	B08C05	1.6	6.41E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.79E+06	3.77E+06

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B111	Am241	10/1/91	B08XC0	1.6	6.40E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.79E+06	3.77E+06	
BX107	Am241						S		TRAC	Am241		3.75E+06	
B202	Am241	6/7/91	B0BC04	1.6	6.34E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.75E+06	3.73E+06	
B110	Am241	8/9/89	89-1251-A-2	1.355	7.50E-02	uCi/g	I	core 2	RAW	Am241	3.76E+06	3.73E+06	
B110	Am241	4/1/90		1.3	7.81E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	3.76E+06	3.73E+06	
B110	Am241	8/9/89	89-1252-A-2	1.355	7.46E-02	uCi/g	I	core 2	RAW	Am241	3.74E+06	3.71E+06	
B202	Am241	6/7/91	B0BC04	1.6	6.26E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.71E+06	3.68E+06	
B202	Am241	6/7/91	B0BC04	1.6	6.24E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.69E+06	3.67E+06	
B110	Am241	4/1/90		1.33	7.50E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	3.69E+06	3.66E+06	
C112	Am241	3/1/92	B08DW5	1.6	6.18E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.66E+06	3.64E+06	
B110	Am241	8/9/89	89-1252-A-1	1.355	7.30E-02	uCi/g	I	core 2	RAW	Am241	3.66E+06	3.63E+06	
S104	Am241						S		TRAC	Am241		3.63E+06	
T107	Am241	3/1/93	B08VD2	1.6	6.14E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.63E+06	3.62E+06	
U110	Am241	11/15/89	89-046/7/8/9		0.0616	uCi/gm	G	Sludge/Composite	Braun	Am241	3.65E+06	3.62E+06	
TY106	Am241						S		TRAC	Am241		3.59E+06	
C112	Am241	3/1/92	B08DW5	1.6	6.06E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.59E+06	3.57E+06	
T107	Am241	3/1/93	B08VB9	1.19	8.13E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.58E+06	3.57E+06	
B202	Am241	6/7/91	B0BC11	1.6	6.04E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.58E+06	3.56E+06	
T102	Am241	3/1/93	B0B732	1.3166667	7.31E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.56E+06	3.55E+06	
U110	Am241	12/1/89		1.48	6.52E-02	uCi/g	I	PRIMARY	U110 - Core Data	Am241	3.57E+06	3.54E+06	
U110	Am241	12/1/89		1.29	7.41E-02	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	3.54E+06	3.51E+06	
T107	Am241	3/1/93	B08VD2	1.6	5.93E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.51E+06	3.50E+06	
T107	Am241	3/1/93	B08V44	1.1	8.58E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.49E+06	3.48E+06	
U110	Am241	12/1/89		1.29	7.31E-02	uCi/g	I	PRIMARY	U110 - Core Data	Am241	3.49E+06	3.46E+06	
B111	Am241	10/1/91	B08XC3	1.6	5.85E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.46E+06	3.45E+06	
B110	Am241	4/1/90		1.3	7.21E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	3.47E+06	3.44E+06	
B202	Am241	6/7/91	B0BC04	1.6	5.84E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.46E+06	3.44E+06	
T107	Am241	3/1/93	B08V44	1.1	8.34E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.39E+06	3.38E+06	
B202	Am241	6/7/91	B0BC04	1.6	5.66E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.35E+06	3.33E+06	
U110	Am241	12/1/89		1.48	6.09E-02	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	3.33E+06	3.31E+06	
B111	Am241	10/1/91	B08XC2	1.6	5.58E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.30E+06	3.29E+06	
B111	Am241	10/1/91	B08XC2	1.6	5.54E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.28E+06	3.26E+06	
B110	Am241	4/1/90		1.3	6.80E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	3.27E+06	3.25E+06	
B111	Am241	10/1/91	B08XB7	1.3	6.77E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.26E+06	3.24E+06	
U103	Am241	12/4/78					G	Sludge	Wastren	Am241	3.31E+06	3.23E+06	
B111	Am241	10/1/91	B08XC3	1.6	5.36E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.17E+06	3.16E+06	
T107	Am241	3/1/93	B08T23	0.95	8.81E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.10E+06	3.09E+06	
T111	Am241	11/1/91	B08WZ1	1.6	5.11E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.03E+06	3.01E+06	
T107	Am241	3/1/93	B08T23	0.95	8.42E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.96E+06	2.95E+06	
B111	Am241	10/1/91	B08XB3	1.6	5.00E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.96E+06	2.94E+06	
B111	Am241	10/1/91	B08XB3	1.6	5.00E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.96E+06	2.94E+06	
BX112	Am241	6/11/79	RAT-BX112-1	1.22	2.03E-08	gm/gm	G	Sludge	Braun	Am241	2.97E+06	2.90E+06	
B110	Am241	8/9/89	89-1251-A-1	1.355	5.82E-02	uCi/g	I	core 2	RAW	Am241	2.92E+06	2.89E+06	
TY106	Am241	9/26/85					G	Sludge	Wastren	Am241	2.93E+06	2.89E+06	
B111	Am241	10/1/91	B08XB3	1.6	4.90E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.90E+06	2.89E+06	
BX112	Am241	6/11/75		1.22	2.03E-08	g/g	I	core segment	RAW	Am241	2.97E+06	2.88E+06	
T107	Am241						S		TRAC	Am241		2.87E+06	
C112	Am241	3/1/92	B08DN8	1.6	4.85E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.87E+06	2.86E+06	
B110	Am241	4/1/90		1.33	5.82E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.86E+06	2.84E+06	
T111	Am241	11/1/91	B08WR1	1.6	4.80E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.84E+06	2.83E+06	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information		ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
SX104	Am241						S		TRAC	Am241		2.81E+08			
B110	Am241	4/1/90		1.34	5.68E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.81E+08	2.79E+08			
TY106	Am241	9/26/85	161C0000	1.43	0.0535	uCi/gm	G	Sludge/Composite	Braun	Am241	2.83E+08	2.79E+08			
U103	Am241	12/4/78	3064	1.4	1.7E-08	gm/gm	S	Solids	Braun	Am241	2.85E+08	2.78E+08			
B111	Am241	10/1/91	B08XB3	1.6	4.70E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.78E+08	2.77E+08			
B201	Am241	8/1/91	B08F21	1.3	5.77E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.78E+08	2.76E+08			
T111	Am241	11/1/91	B08WR2	1.6	4.66E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.76E+08	2.74E+08			
B110	Am241	4/1/90		1.34	5.54E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.75E+08	2.73E+08			
T111	Am241	11/1/91	B08WZ1	1.6	4.61E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.73E+08	2.72E+08			
T111	Am241	8/7/92	J-466		0.0459	uCi/gm	G	Sludge/Composite	Braun	Am241	2.72E+08	2.71E+08			
T107	Am241	3/1/93	B08VFO	1.3833333	5.21E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.67E+08	2.66E+08			
B111	Am241	10/1/91	B08XB7	1.3	5.50E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.65E+08	2.63E+08			
B110	Am241	4/1/90		1.3	5.50E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.65E+08	2.63E+08			
T111	Am241	11/1/91	B08WZ1	1.6	4.44E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.63E+08	2.62E+08			
T111	Am241	11/1/91	B08WR1	1.6	4.43E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.62E+08	2.61E+08			
TY104	Am241	6/30/87	251S0000	1.66	4.29E-02	uCi/g	G	SLUDGE	RAW	Am241	2.63E+08	2.60E+08			
TY104	Am241	8/14/85	251S0000	1.66	0.0429	uCi/gm	G	Sludge/Composite	Braun	Am241	2.63E+08	2.60E+08			
B111	Am241	10/1/91	B08XB7	1.3	5.40E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.60E+08	2.58E+08			
T107	Am241	3/1/93	B08VFO	1.3833333	5.06E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.59E+08	2.58E+08			
T111	Am241	11/1/91	B08WR1	1.6	4.37E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.59E+08	2.57E+08			
T107	Am241	3/1/93	B08VD9	1.305	5.28E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.55E+08	2.54E+08			
BY104	Am241	11/12/92	R-1775		0.043	uCi/gm	T	Crust	Braun	Am241	2.55E+08	2.54E+08			
BY104	Am241	10/26/92	riser 10		4.30E-02	uCi/g	S	wet solids	RAW	Am241	2.55E+08	2.54E+08			
B111	Am241	10/1/91	B08XB7	1.3	5.30E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.55E+08	2.54E+08			
T111	Am241	11/1/91	B08WZ1	1.6	4.24E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.51E+08	2.50E+08			
B201	Am241	8/1/91	B08F21	1.3	5.19E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.50E+08	2.48E+08			
B201	Am241	8/1/91	B08F21	1.3	5.16E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.48E+08	2.47E+08			
B110	Am241	4/1/90		1.32	5.08E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.48E+08	2.46E+08			
TY103	Am241	6/30/87	31XC00XX	1.7	3.95E-02	uCi/g	I	Core Composite	RAW	Am241	2.48E+08	2.45E+08			
T111	Am241	11/1/91	B08WR2	1.6	4.16E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.46E+08	2.45E+08			
TY103	Am241	8/21/85	31XC0000	1.7	0.0395	uCi/gm	G	Sludge/Composite	Braun	Am241	2.48E+08	2.45E+08			
TY103	Am241	8/21/85					G	Sludge	Wastren	Am241	2.48E+08	2.44E+08			
B201	Am241	8/1/91	B08F21	1.3	5.07E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.44E+08	2.43E+08			
T107	Am241	3/1/93	B08VD9	1.305	4.98E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.40E+08	2.40E+08			
B111	Am241	10/1/91	B08XB3	1.3	5.00E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.41E+08	2.39E+08			
T111	Am241	11/1/91	B08WR2	1.6	4.02E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.38E+08	2.37E+08			
B111	Am241	10/1/91	B08XB3	1.3	4.90E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.36E+08	2.34E+08			
T111	Am241	11/1/91	B08WR2	1.6	3.96E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.34E+08	2.33E+08			
T111	Am241	11/1/91	B08WZ0	1.6	3.95E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.34E+08	2.33E+08			
T111	Am241	11/1/91	B08WZ0	1.6	3.94E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.33E+08	2.32E+08			
C110	Am241	4/23/92	B08VK1	1.6	3.91E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.31E+08	2.30E+08			
B110	Am241	4/1/90		1.32	4.75E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.32E+08	2.30E+08			
T111	Am241	8/7/92	J-470		0.0387	uCi/gm	G	Sludge/Composite	Braun	Am241	2.29E+08	2.28E+08			
T111	Am241	11/1/91	B08WR1	1.6	3.85E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.28E+08	2.27E+08			
B201	Am241	8/1/91	B08F50	1.6	3.82E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.26E+08	2.25E+08			
B111	Am241	10/1/91	B08XB3	1.3	4.70E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.26E+08	2.25E+08			
T111	Am241	11/1/91	B08WZ0	1.6	3.79E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.24E+08	2.23E+08			
B201	Am241	8/1/91	B08F50	1.6	3.74E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.21E+08	2.20E+08			
T111	Am241	11/1/91	B08WZ0	1.6	3.71E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.20E+08	2.19E+08			
B201	Am241	8/1/91	B08F51	1.6	3.61E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.14E+08	2.13E+08			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TY104	Am241	8/14/85	251S0000	1.66	0.0347	uCi/gm	G	Sludge/Composite	Braun	Am241	2.13E+06	2.10E+06	
TY108	Am241	7/8/87	111C0000	1.31	4.37E-02	uCi/g	S	SOLID	RAW	Am241	2.12E+06	2.09E+06	
TY106	Am241	7/31/85	111C0000	1.31	0.0437	uCi/gm	G	Sludge/Composite	Braun	Am241	2.12E+06	2.09E+06	
B201	Am241	8/1/91	B08F50	1.6	3.50E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.07E+06	2.06E+06	
TY104	Am241	6/30/87	241S0000	1.77	3.17E-02	uCi/g	G	SLUDGE	RAW	Am241	2.08E+06	2.05E+06	
TY104	Am241	8/6/85	241S0000	1.77	0.0317	uCi/gm	G	Sludge/Composite	Braun	Am241	2.08E+06	2.05E+06	
SX103	Am241	10/10/77					G	Sludge	Wastren	Am241	2.09E+06	2.03E+06	
B111	Am241	10/1/91	B08XC3	1.6	3.40E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.01E+06	2.00E+06	
TY104	Am241	6/30/87	261S0000	1.48	3.69E-02	uCi/g	G	SLUDGE	RAW	Am241	2.02E+06	2.00E+06	
T111	Am241	11/1/91	B08SX5	1.06	5.11E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.00E+06	1.99E+06	
B110	Am241	4/1/90		1.36	3.99E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.01E+06	1.99E+06	
T111	Am241	8/7/92	J-410	1.06	0.051	uCi/gm	G	Sludge	Braun	Am241	2.00E+06	1.99E+06	
TY104	Am241	8/16/85	261S0000	1.48	0.0369	uCi/gm	G	Sludge/Composite	Braun	Am241	2.02E+06	1.99E+06	
TY104	Am241	8/16/85					G	Sludge	Wastren	Am241	2.02E+06	1.99E+06	
T111	Am241	11/1/91	B08SX5	1.06	5.06E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.98E+06	1.97E+06	
B201	Am241	8/1/91	B08F50	1.6	3.34E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.98E+06	1.97E+06	
B201	Am241	8/1/91	B08F51	1.6	3.34E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.98E+06	1.97E+06	
T111	Am241	11/1/91	B08SX5	1.06	4.98E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.95E+06	1.94E+06	
T111	Am241	11/1/91	B08SX5	1.06	4.98E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.95E+06	1.94E+06	
B110	Am241	4/1/90		1.36	3.79E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.91E+06	1.89E+06	
C109	Am241	9/1/92	B08T17	1.2	4.20E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.86E+06	1.86E+06	
TY105	Am241	9/13/85	61XC0000		0.0318	uCi/gm	G	Sludge/Composite	Braun	Am241	1.88E+06	1.85E+06	
T107	Am241	3/1/93	B08VF0	1.3833333	3.61E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.85E+06	1.84E+06	
T107	Am241	3/1/93	B08VF0	1.3833333	3.58E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.83E+06	1.83E+06	
B201	Am241	8/1/91	B08F50	1.6	3.10E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.84E+06	1.83E+06	
B201	Am241	8/1/91	B08F50	1.6	3.10E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.84E+06	1.83E+06	
B201	Am241	8/1/91	B08F50	1.6	3.06E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.81E+06	1.80E+06	
T105	Am241						S		TRAC	Am241		1.78E+06	
TY105	Am241	9/13/85	61XC0000	1.53	0.0318	uCi/gm	G	Sludge/Composite	Braun	Am241	1.80E+06	1.77E+06	
TY105	Am241	9/13/85					G	Sludge	Wastren	Am241	1.80E+06	1.77E+06	
TY105	Am241	8/1/85	61XC00XX	1.53	3.18E-02	uCi/g	I	Core Composite	RAW	Am241	1.80E+06	1.77E+06	
B110	Am241	4/1/90		1.32	3.63E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.77E+06	1.76E+06	
B201	Am241	8/1/91	B08F51	1.6	2.98E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.76E+06	1.75E+06	
TY106	Am241	7/8/87	161C0000	1.43	3.35E-02	uCi/g	S	SOLID	RAW	Am241	1.77E+06	1.75E+06	
SX103	Am241	10/10/77	1104	1.5	0.000015	gm/l	S	Solids	Braun	Am241	1.80E+06	1.75E+06	
SX103	Am241	10/10/77	1104	2	0.000015	gm/l	S	Solids	Braun	Am241	1.80E+06	1.75E+06	
B110	Am241	4/1/90		1.32	3.61E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.76E+06	1.75E+06	
B110	Am241	4/1/90		1.3	3.60E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.73E+06	1.72E+06	
TY103	Am241	6/30/87	32XC00XX	1.7	2.68E-02	uCi/g	I	Core Composite	RAW	Am241	1.69E+06	1.67E+06	
TY103	Am241	8/21/85	32XC0000	1.7	0.0268	uCi/gm	G	Sludge/Composite	Braun	Am241	1.69E+06	1.66E+06	
T107	Am241	3/1/93	B08VD2	1.6	2.81E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.66E+06	1.66E+06	
SX105	Am241						S		TRAC	Am241		1.66E+06	
C112	Am241	3/1/92	B08DN8	1.6	2.70E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.60E+06	1.59E+06	
T107	Am241	3/1/93	B08VD2	1.6	2.67E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.58E+06	1.58E+06	
C112	Am241	3/1/92	B08DN8	1.6	2.66E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.57E+06	1.57E+06	
B201	Am241	8/1/91	B08F50	1.6	2.64E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.56E+06	1.55E+06	
C112	Am241	3/1/92	B08DN8	1.6	2.58E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.53E+06	1.52E+06	
TY104	Am241	6/30/87	232S0000	1.85	2.22E-02	uCi/g	G	SLUDGE	RAW	Am241	1.52E+06	1.50E+06	
TY104	Am241	8/6/85	232S0000	1.85	0.0222	uCi/gm	G	Sludge/Composite	Braun	Am241	1.52E+06	1.50E+06	
C112	Am241	3/1/92	B08DN8	1.6	2.54E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.50E+06	1.50E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C203	Am241						S		TRAC	Am241		1.38E+06	
TX114	Am241						S		TRAC	Am241		1.37E+06	
B201	Am241	8/1/91	B08F51	1.6	2.30E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.36E+06	1.35E+06	
BY103	Am241						S		TRAC	Am241		1.34E+06	
C103	Am241						S		TRAC	Am241		1.31E+06	
C112	Am241	3/1/92	B08DN8	1.6	2.19E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.30E+06	1.29E+06	
SX113	Am241						S		TRAC	Am241		1.28E+06	
U101	Am241						S		TRAC	Am241		1.28E+06	
B110	Am241	4/1/90		1.37	2.48E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.26E+06	1.25E+06	
TY104	Am241	8/6/85	232S0000	1.85	0.0183	uCi/gm	G	Sludge/Composite	Braun	Am241	1.25E+06	1.23E+06	
S111	Am241						S		TRAC	Am241		1.23E+06	
TX110	Am241						S		TRAC	Am241		1.22E+06	
C202	Am241						S		TRAC	Am241		1.22E+06	
T104	Am241	8/26/92	B08TB9	1.6	2.04E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.21E+06	1.20E+06	
T111	Am241	8/7/92	J-414	1.13	0.0288	uCi/gm	G	Sludge	Braun	Am241	1.20E+06	1.20E+06	
T111	Am241	11/1/91	B08SQ9	1.13	2.88E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.20E+06	1.20E+06	
B110	Am241	4/1/90		1.3	2.50E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.20E+06	1.19E+06	
T111	Am241	11/1/91	B08SQ9	1.13	2.84E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.19E+06	1.18E+06	
BX107	Am241	6/1/92	B08SF0	1.3264	2.40E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.18E+06	1.17E+06	
BX107	Am241	6/1/92	B08SF0	1.3264	2.40E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.18E+06	1.17E+06	
BX107	Am241	6/1/92	B08SF0	1.3264	2.35E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.15E+06	1.15E+06	
T104	Am241	8/26/92	B08TT8	1.6	1.90E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.12E+06	1.12E+06	
B110	Am241	4/1/90		1.36	2.21E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.11E+06	1.10E+06	
B203	Am241	12/4/78	2782	1.09	8.48E-09	gm/gm	G	Sludge	Braun	Am241	1.11E+06	1.08E+06	
T104	Am241	8/26/92	B08TB9	1.6	1.83E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.08E+06	1.08E+06	
BX107	Am241	6/1/92	B08SF0	1.3264	2.20E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.08E+06	1.08E+06	
T104	Am241	8/26/92	B08TT8	1.6	1.75E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.04E+06	1.03E+06	
B110	Am241	4/1/90		1.37	2.04E-02	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.03E+06	1.03E+06	
B110	Am241	8/9/89	90-0636-A-1	1.355	2.06E-02	uCi/g	I	core 2	RAW	Am241	1.03E+06	1.03E+06	
B201	Am241	8/1/91	B08F17	1.2	2.29E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.02E+06	1.01E+06	
U110	Am241	12/1/89			1.71E-02	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	1.01E+06	1.00E+06	
T104	Am241	8/26/92	B08TT8	1.6	1.70E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.01E+06	1.00E+06	
T107	Am241	3/1/93	B08VB9	1.19	2.28E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.00E+06	1.00E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
T104	Am241	8/26/92	B08TC0	1.6	1.68E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.95E+05	9.91E+05	
T107	Am241	3/1/93	B08VB9	1.19	2.22E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.77E+05	9.75E+05	
T104	Am241	8/26/92	B08TC0	1.6	1.63E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.65E+05	9.61E+05	
BX107	Am241	6/1/92	B08X70	1.6	1.62E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.59E+05	9.55E+05	
T104	Am241	8/26/92	B08TC0	1.6	1.59E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.41E+05	9.38E+05	
T104	Am241	8/26/92	B08TT7	1.6	1.59E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.41E+05	9.38E+05	
BX102	Am241						S		TRAC	Am241		9.30E+05	
B110	Am241	4/1/90		1.36	1.85E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	9.29E+05	9.22E+05	
T104	Am241	8/26/92	B08TT7	1.6	1.54E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.12E+05	9.08E+05	
T104	Am241	1/26/93	T104-C45-C2		0.0149	uCi/gm	G	Sludge/Composite	Braun	Am241	8.82E+05	8.79E+05	
T104	Am241	8/26/92	B08TT7	1.6	1.46E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.64E+05	8.61E+05	
T111	Am241	8/7/92	J-404	1.11	0.021	uCi/gm	G	Sludge	Braun	Am241	8.62E+05	8.59E+05	
T111	Am241	11/1/91	B08ST9	1.11	2.10E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.62E+05	8.58E+05	
BX107	Am241	10/20/92	J925-AV		0.0145	uCi/gm	G	Sludge/Composite	Braun	Am241	8.58E+05	8.55E+05	
T104	Am241	8/26/92	B08TT7	1.6	1.45E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.58E+05	8.55E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Am241	4/1/90		1.36	1.69E-02	uCi/g	I		RAW	Am241	8.50E+05	8.44E+05	
C112	Am241	3/1/92	B08DY1	2	1.14E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.44E+05	8.40E+05	
B201	Am241	8/1/91	B08RP3	1.2	1.89E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.39E+05	8.35E+05	
BX107	Am241	6/1/92	B08X98	1.6	1.41E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.35E+05	8.31E+05	
T107	Am241	3/1/93	B08VB9	1.19	1.89E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.32E+05	8.30E+05	
BX107	Am241	10/20/92	J926-AV		0.01395	uCi/gm	G	Sludge/Composite	Braun	Am241	8.26E+05	8.23E+05	
T111	Am241	11/1/91	B08ST9	1.11	2.00E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.21E+05	8.17E+05	
BX107	Am241	6/1/92	B08X98	1.6	1.38E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.17E+05	8.14E+05	
T104	Am241	8/26/92	B08TT8	1.6	1.37E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.11E+05	8.08E+05	
BX107	Am241	6/1/92	B08X71	1.6	1.34E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.93E+05	7.90E+05	
B110	Am241	4/1/90		1.21	1.77E-02	uCi/g	I		RAW	Am241	7.92E+05	7.86E+05	
BX107	Am241	10/20/92	J927-AV		0.01325	uCi/gm	G	Sludge/Composite	Braun	Am241	7.84E+05	7.82E+05	
TY101	Am241	7/8/87		1.64	1.30E-02	uCi/g	S	CREAMY	RAW	Am241	7.89E+05	7.79E+05	
TY101	Am241	9/11/85					G	Sludge	Wastren	Am241	7.89E+05	7.77E+05	
TY101	Am241	9/11/85	51XC0000	1.64	0.013	uCi/gm	G	Sludge/Composite	Braun	Am241	7.89E+05	7.77E+05	
BX107	Am241	6/1/92	B08X71	1.6	1.31E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.76E+05	7.72E+05	
T107	Am241	3/1/93	B08VB9	1.19	1.75E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.71E+05	7.68E+05	
T104	Am241	8/26/92	B08TC0	1.6	1.30E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.70E+05	7.67E+05	
BX107	Am241	6/1/92	B08X70	1.6	1.28E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.58E+05	7.55E+05	
B110	Am241	4/1/90		1.23	1.65E-02	uCi/g	I		RAW	Am241	7.49E+05	7.43E+05	
T104	Am241	8/26/92	B08TB9	1.6	1.25E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.40E+05	7.37E+05	
BX107	Am241	6/1/92	B08X97	1.6	1.23E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.28E+05	7.25E+05	
B201	Am241	8/1/91	B08RP3	1.2	1.61E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.15E+05	7.11E+05	
T107	Am241	3/1/93	B08VB9	1.19	1.61E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.09E+05	7.07E+05	
T102	Am241	3/1/93	B08732	1.3166667	1.44E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.02E+05	6.99E+05	
T104	Am241	1/26/93	T104-C45-C1		0.0117	uCi/gm	G	Sludge/Composite	Braun	Am241	6.93E+05	6.91E+05	
T107	Am241	3/1/93	B08VD2	1.6	1.15E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.81E+05	6.79E+05	
B201	Am241	8/1/91	B08F17	1.2	1.51E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.70E+05	6.67E+05	
C109	Am241	9/1/92	B08T69	1.6	1.13E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.69E+05	6.66E+05	
B110	Am241	4/1/90		1.37	1.31E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	6.64E+05	6.59E+05	
BX112	Am241						S		TRAC	Am241		6.57E+05	
T107	Am241	3/1/93	B08VD2	1.6	1.11E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.57E+05	6.55E+05	
B201	Am241	8/1/91	B08F17	1.2	1.48E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.57E+05	6.54E+05	
B201	Am241	8/1/91	B08RP3	1.2	1.46E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.48E+05	6.45E+05	
T107	Am241	3/1/93	B08VB9	1.19	1.46E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.43E+05	6.41E+05	
B201	Am241	8/1/91	B08F17	1.2	1.45E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.44E+05	6.40E+05	
B110	Am241	4/1/90		1.37	1.27E-02	uCi/g	I	PRIMARY	B110 - Core Data	Am241	6.44E+05	6.39E+05	
T104	Am241	8/26/92	B08TB9	1.6	1.08E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.39E+05	6.37E+05	
B201	Am241	8/1/91	B08RP3	1.2	1.43E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.35E+05	6.31E+05	
C110	Am241	4/23/92	B08W47	1.6	1.02E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.04E+05	6.01E+05	
BX107	Am241	10/20/92	J924-AV		0.010175	uCi/gm	G	Sludge/Composite	Braun	Am241	6.02E+05	6.00E+05	
B110	Am241	4/1/90		1.31	1.21E-02	uCi/g	I		RAW	Am241	5.86E+05	5.82E+05	
B110	Am241	4/1/90		1.23	1.28E-02	uCi/g	I		RAW	Am241	5.84E+05	5.79E+05	
U108	Am241						S		TRAC	Am241		5.79E+05	
T111	Am241	11/1/91	B08SV7	1.09	1.41E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.69E+05	5.66E+05	
T111	Am241	8/7/92	J-408	1.09	0.014	uCi/gm	G	Sludge	Braun	Am241	5.65E+05	5.62E+05	
BX108	Am241						S		TRAC	Am241		5.58E+05	
S105	Am241						S		TRAC	Am241		5.56E+05	
T111	Am241	11/1/91	B08SV7	1.09	1.36E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.48E+05	5.46E+05	
T111	Am241	11/1/91	B08SV7	1.09	1.36E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.48E+05	5.46E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
T108	Am241						S		TRAC	Am241		5.40E+05	
B110	Am241	4/1/90		1.31	1.12E-02	uCi/g	I		RAW	Am241	5.43E+05	5.39E+05	
S102	Am241						S		TRAC	Am241		5.36E+05	
C112	Am241	3/1/92	B08DT4	1.6	9.06E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.36E+05	5.34E+05	
T111	Am241	11/1/91	B08SV7	1.09	1.31E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.28E+05	5.26E+05	
C109	Am241	9/1/92	B08T69	1.6	8.88E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.26E+05	5.24E+05	
B110	Am241						S		TRAC	Am241		5.05E+05	
T111	Am241	11/1/91	B08ST7	0.93	1.41E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.85E+05	4.83E+05	
T111	Am241	8/7/92	J-402	0.93	0.014	uCi/gm	G	Sludge	Braun	Am241	4.82E+05	4.80E+05	
T111	Am241	11/1/91	B08ST7	0.93	1.40E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.82E+05	4.79E+05	
BX107	Am241	6/1/92	B08X97	1.6	8.05E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.77E+05	4.75E+05	
C110	Am241	4/23/92	B08VK1	1.6	8.01E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.74E+05	4.72E+05	
B110	Am241	4/1/90		1.31	9.73E-03	uCi/g	I		RAW	Am241	4.72E+05	4.68E+05	
T111	Am241	11/1/91	B08ST7	0.93	1.36E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.68E+05	4.66E+05	
C112	Am241	3/1/92	B08DY1	2	6.16E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.56E+05	4.54E+05	
BX107	Am241	9/18/80	RAT-BX107-2	1.422	2.70E-09	gm/gm	G	Sludge	Braun	Am241	4.60E+05	4.50E+05	
T104	Am241	8/26/92	B08S09	1.13	1.08E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.52E+05	4.50E+05	
S111	Am241	8/25/78	1003/1004-C	1.86	2.07E-09	gm/gm	S	Solids	Braun	Am241	4.62E+05	4.50E+05	
C110	Am241	4/23/92	B08VJ5	1.6	7.55E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.47E+05	4.45E+05	
B110	Am241	4/1/90		1.24	9.67E-03	uCi/g	I		RAW	Am241	4.43E+05	4.40E+05	
T112	Am241						S		TRAC	Am241		4.37E+05	
C112	Am241	3/1/92	B08DM7	1.6	7.37E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.36E+05	4.34E+05	
TX113	Am241						S		TRAC	Am241		4.31E+05	
T104	Am241	8/26/92	B08S09	1.13	9.94E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	4.16E+05	4.14E+05	
C112	Am241	3/1/92	B08DM7	1.6	6.92E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.10E+05	4.08E+05	
U110	Am241	12/1/89		1.04	1.00E-02	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	3.85E+05	3.82E+05	
B110	Am241	4/1/90		1.21	8.47E-03	uCi/g	I		RAW	Am241	3.79E+05	3.76E+05	
U110	Am241	12/1/89			6.09E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	3.61E+05	3.58E+05	
T104	Am241	8/26/92	B08S09	1.13	8.50E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.55E+05	3.54E+05	
B110	Am241	4/1/90		1.31	7.34E-03	uCi/g	I		RAW	Am241	3.56E+05	3.53E+05	
T104	Am241	8/26/92	B08S09	1.13	8.16E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.41E+05	3.40E+05	
B110	Am241	4/1/90		1.17	7.75E-03	uCi/g	I		RAW	Am241	3.35E+05	3.33E+05	
C110	Am241	4/23/92	B08W47	1.6	5.63E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.33E+05	3.32E+05	
C109	Am241						S		TRAC	Am241		3.31E+05	
B110	Am241	4/1/90		1.17	7.70E-03	uCi/g	I		RAW	Am241	3.33E+05	3.31E+05	
TY102	Am241	9/9/85					K	Saltcake	Wastren	Am241	3.35E+05	3.30E+05	
TY102	Am241	3/1/86		1.88	4.81E-03	uCi/g	S	SOLID	RAW	Am241	3.35E+05	3.30E+05	
TY102	Am241	9/9/85	41XC0000	1.88	0.00481	uCi/gm	G	Sludge/Composite	Braun	Am241	3.35E+05	3.30E+05	
C110	Am241	4/23/92			5.55E-03	uCi/g	S		RAW	Am241	3.29E+05	3.27E+05	
C110	Am241	4/23/92	B08VJ5	1.6	5.55E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.29E+05	3.27E+05	
B107	Am241						S		TRAC	Am241		3.21E+05	
T102	Am241	3/1/93	B0B732	1.3166667	6.57E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.20E+05	3.19E+05	
T108	Am241						S		TRAC	Am241		3.11E+05	
C110	Am241	4/23/92			5.22E-03	uCi/g	S		RAW	Am241	3.09E+05	3.08E+05	
C110	Am241	4/23/92	B08VN6	1.6	5.22E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.09E+05	3.08E+05	
BX104	Am241						S		TRAC	Am241		3.08E+05	
B110	Am241	4/1/90		1.21	6.89E-03	uCi/g	I		RAW	Am241	3.09E+05	3.06E+05	
C110	Am241	4/23/92			5.13E-03	uCi/g	S		RAW	Am241	3.04E+05	3.02E+05	
C110	Am241	4/23/92	B08VN6	1.6	5.13E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.04E+05	3.02E+05	
B110	Am241	4/1/90		1.36	5.63E-03	uCi/g	I		RAW	Am241	2.83E+05	2.81E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BY111	Am241						S		TRAC	Am241		2.79E+05	
C110	Am241	4/23/92			4.74E-03	uCi/g	S		RAW	Am241	2.81E+05	2.79E+05	
C110	Am241	4/23/92	B08VP1	1.6	4.74E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.81E+05	2.79E+05	
B110	Am241	4/1/90		1.36	5.41E-03	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.72E+05	2.70E+05	
BX110	Am241						S		TRAC	Am241		2.65E+05	
U110	Am241	12/1/89		1.42	4.92E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	2.58E+05	2.56E+05	
T111	Am241						S		TRAC	Am241		2.56E+05	
C110	Am241	4/23/92			4.34E-03	uCi/g	S		RAW	Am241	2.57E+05	2.56E+05	
C110	Am241	4/23/92	B08VP1	1.6	4.34E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.57E+05	2.56E+05	
A102	Am241						S		TRAC	Am241		2.53E+05	
B110	Am241	4/1/90		1.36	5.05E-03	uCi/g	I		RAW	Am241	2.54E+05	2.52E+05	
TX118	Am241						S		TRAC	Am241		2.38E+05	
C109	Am241	9/1/92	B08T63	1.6	4.00E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.37E+05	2.36E+05	
C109	Am241	9/1/92	B08T69	1.6	3.90E-03	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.31E+05	2.30E+05	
C109	Am241	9/1/92	B08T63	1.6	3.90E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.31E+05	2.30E+05	
U111	Am241						S		TRAC	Am241		2.12E+05	
S106	Am241						S		TRAC	Am241		1.98E+05	
C109	Am241	9/1/92	B08T69	1.6	3.30E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.95E+05	1.95E+05	
B110	Am241	4/1/90		1.36	3.66E-03	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.84E+05	1.83E+05	
TX111	Am241						S		TRAC	Am241		1.79E+05	
SX102	Am241						S		TRAC	Am241		1.55E+05	
U110	Am241	12/1/89		1.54	2.66E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	1.52E+05	1.50E+05	
S111	Am241	8/25/78	1009-C	1.46	8.52E-10	gm/gm	S	Solids	Braun	Am241	1.49E+05	1.45E+05	
S111	Am241	8/25/78	1009-C	1.44	8.52E-10	gm/gm	S	Solids	Braun	Am241	1.47E+05	1.43E+05	
U110	Am241	12/1/89			2.43E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	1.44E+05	1.43E+05	
U110	Am241	12/1/89		1.675	2.31E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	1.43E+05	1.42E+05	
B110	Am241	4/1/90		1.36	2.83E-03	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.42E+05	1.41E+05	
B110	Am241	8/9/89	90-0716-C-2	1.355	6.28E+03	dpm/g	I	core 4	RAW	Am241	1.42E+05	1.41E+05	
U110	Am241	12/1/89		1.54	2.48E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	1.41E+05	1.40E+05	
S111	Am241	8/25/78	1009#C	1.44	8.10E-10	g/g	S	Acid(KOH Fusion)	RAW	Am241	1.40E+05	1.36E+05	
U110	Am241	12/1/89		1.42	2.53E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	1.33E+05	1.32E+05	
TX108	Am241						S		TRAC	Am241		1.31E+05	
B110	Am241	4/1/90		1.34	2.64E-03	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.31E+05	1.30E+05	
T110	Am241						S		TRAC	Am241		1.23E+05	
B104	Am241						S		TRAC	Am241		1.20E+05	
U110	Am241	12/1/89		1.48	2.09E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	1.14E+05	1.14E+05	
U110	Am241	12/1/89		1.48	1.92E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	1.05E+05	1.04E+05	
B110	Am241	4/1/90		1.36	1.95E-03	uCi/g	I	PRIMARY	B110 - Core Data	Am241	9.81E+04	9.74E+04	
B110	Am241	8/9/89	90-0716-C-1	1.355	4.33E+03	dpm/g	I	core 4	RAW	Am241	9.80E+04	9.71E+04	
U110	Am241	12/1/89		1.675	1.49E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	9.23E+04	9.16E+04	
B110	Am241	4/1/90		1.34	1.67E-03	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	8.29E+04	8.22E+04	
TY102	Am241						S		TRAC	Am241		7.60E+04	
U110	Am241	12/1/89		1.3	1.58E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	7.60E+04	7.54E+04	
U110	Am241	12/1/89			1.27E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	7.52E+04	7.46E+04	
B110	Am241	8/9/89	90-0714-A-3	1.355	3.25E+03	dpm/g	I	core 4	RAW	Am241	7.35E+04	7.29E+04	
B111	Am241						S		TRAC	Am241		6.55E+04	
U110	Am241	12/1/89		1.3	1.30E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	6.25E+04	6.20E+04	
U110	Am241	12/1/89		1.29	1.07E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	5.11E+04	5.07E+04	
U110	Am241	12/1/89		1.04	1.20E-03	uCi/g	I	PRIMARY	U110 - Core Data	Am241	4.62E+04	4.58E+04	
B112	Am241						S		TRAC	Am241		4.53E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
U110	Am241	12/1/89		1.29	9.06E-04	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	4.32E+04	4.29E+04		
B110	Am241	8/9/89	89-0730-A-3	1.355	8.11E-04	uCi/g	I	core 2	RAW	Am241	4.07E+04	4.03E+04		
U204	Am241	12/4/78	RAT-U204-1	1.31	2.51E-10	gm/gm	S	Solids	Braun	Am241	3.94E+04	3.84E+04		
U110	Am241	12/1/89		1.04	1.00E-03	uCi/g	I	DUPLICATE	U110 - Core Data	Am241	3.85E+04	3.82E+04		
B105	Am241						S		TRAC	Am241		3.81E+04		
TX115	Am241						S		TRAC	Am241		3.37E+04		
U112	Am241						S		TRAC	Am241		3.15E+04		
BX111	Am241						S		TRAC	Am241		3.10E+04		
B110	Am241	8/9/89	90-0640-C-1	1.355	1.22E+03	dpm/g	I	core 2	RAW	Am241	2.76E+04	2.74E+04		
B110	Am241	8/9/89	89-1252-A-3	1.355	5.45E-04	uCi/g	I	core 2	RAW	Am241	2.73E+04	2.71E+04		
B110	Am241	4/1/90		1.33	5.50E-04	uCi/g	I	PRIMARY	B110 - Core Data	Am241	2.70E+04	2.68E+04		
B110	Am241	8/9/89	90-0640-C-2	1.355	1.04E+03	dpm/g	I	core 2	RAW	Am241	2.35E+04	2.33E+04		
B110	Am241	4/1/90		1.33	4.68E-04	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.31E+04	2.29E+04		
B110	Am241	4/1/90		1.32	4.59E-04	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	2.24E+04	2.23E+04		
S103	Am241						S		TRAC	Am241		1.52E+04		
S111	Am241	8/25/78	1001-C	1.27	1.02E-10	gm/gm	S	Solids	Braun	Am241	1.55E+04	1.51E+04		
S111	Am241	8/25/78	1001#C	1.27	1.02E-10	g/g	A	Salt	RAW	Am241	1.55E+04	1.51E+04		
B110	Am241	4/1/90		1.32	2.75E-04	uCi/g	I	PRIMARY	B110 - Core Data	Am241	1.34E+04	1.33E+04		
B108	Am241						S		TRAC	Am241		1.12E+04		
B110	Am241	4/1/90		1.37	1.91E-04	uCi/g	I	PRIMARY	B110 - Core Data	Am241	9.68E+03	9.61E+03		
TX112	Am241						S		TRAC	Am241		8.94E+03		
S111	Am241	8/25/78	003-C and 1004-	1.86	4.03E-11	g/g	S	Water soluble	RAW	Am241	8.99E+03	8.75E+03		
BY101	Am241						S		TRAC	Am241		7.16E+03		
S111	Am241	8/25/78	1009#C	1.44	4.23E-11	g/g	S	Water soluble	RAW	Am241	7.30E+03	7.11E+03		
B106	Am241						S		TRAC	Am241		7.10E+03		
S111	Am241	9/18/80	RAT-S111-5		2.51E-11	gm/gm	S	Solids	Braun	Am241	4.81E+03	4.71E+03		
B109	Am241						S		TRAC	Am241		2.39E+03		
C110	Am241	4/23/92			1.57E-05	uCi/g	S		RAW	Am241	9.29E+02	9.25E+02		
C110	Am241	4/23/92			1.54E-05	uCi/g	S		RAW	Am241	9.12E+02	9.08E+02		
TX117	Am241						S		TRAC	Am241		5.63E+02		
TX116	Am241						S		TRAC	Am241		3.36E+02		
B110	Am241	4/1/90		1.37	2.76E-06	uCi/g	I	DUPLICATE	B110 - Core Data	Am241	1.40E+02	1.39E+02		
U203	Am241						S		TRAC	Am241		6.62E+01		
U202	Am241						S		TRAC	Am241		6.49E+01		
U201	Am241						S		TRAC	Am241		6.34E+01		
TX102	Am241						S		TRAC	Am241		5.80E+01		
TX101	Am241						S		TRAC	Am241		3.03E+01		
BX103	Am241						S		TRAC	Am241		1.81E+01		
T104	Am241	9/18/80			2.70E-07	uCi/g	S	H2O Insoluble	RAW	Am241	1.60E+01	1.56E+01		
T104	Am241	9/18/80					G	Sludge	Wastren	Am241	1.31E+01	1.28E+01		
T104	Am241	9/18/80	RAT-T104-2	1.307	2.7E-07	uCi/gm	G	Sludge	Braun	Am241	1.31E+01	1.28E+01		
U103	Am241						S		TRAC	Am241		1.03E+01		
A101	Am241	11/10/80	RAT-A101-6		0.00017	uCi/l	R	Slurry	Braun	Am241	6.29E+00	6.15E+00		
A101	Am241	11/10/80	RAT-A101-4A	1.65	0.00017	uCi/l	R	Slurry	Braun	Am241	6.29E+00	6.15E+00		
BX112	Am241	9/18/80			2.00E-08	g/g	S	Water Insoluble	RAW	Am241	1.18E+00	1.16E+00		
A105	Am241						S		TRAC	Am241		9.31E-01		
BX107	Am241	9/18/80			2.70E-09	g/g	S	solids, Water Insoluble	RAW	Am241	1.60E-01	1.56E-01		
S111	Am241	8/25/78	003-C and 1004-	1.86	2.03E-09	uCi/g	S	Acid(KOH Fusion)	RAW	Am241	1.40E-01	1.36E-01		
A101	Am241	11/11/80	RAT-A101-8		0	uCi/l	R	Slurry	Braun	Am241	0.00E+00	0.00E+00		
A102	Am241	3/8/86	92XCOOXX	1.66	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR02]
 ASA Value: 3.6E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
A108	Am241	3/11/86	A1XC00XX	1.56	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
BX104	Am241	2/14/86	71XC00XX	1.85	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
C108	Am241	5/19/86	G1XC00XX	1.43	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY101	Am241	9/11/85	51XC0000	1.64	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY102	Am241	9/9/85	41XC0000	1.88	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY103	Am241	8/21/85	31XC0000	1.7	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY103	Am241	8/21/85	32XC0000	1.7	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY104	Am241	8/6/85	241S0000	1.77	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY104	Am241	8/16/85	261S0000	1.48	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY105	Am241	9/13/85	61XC0000	1.53	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY105	Am241	9/13/85	61XC0000		0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY108	Am241	7/31/85	111C0000	1.31	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	
TY108	Am241	9/26/85	161C0000	1.43	0	uCi/gm	G	Sludge/Composite	Braun	Am241	0.00E+00	0.00E+00	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Single-Shell Tank Liquids [Sketch ES-VAL-CR03]
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C106	Cm-244	4/1/90	RAT-C106-4B		0.129	ugm/gm	U	Unknown	Braun	Cm243/244	4.37E+08	3.65E+08	2
C105	Cm-244	4/1/90	RAT-C105-4B		0.0295	ugm/gm	U	Unknown	Braun	Cm243/244	1.00E+08	8.35E+07	2
B108	Cm244						L		TRAC	Cm243/244	4.16E+05	2.44E+05	4
Minimum Plot Limit: 1.00E+05 Bq/L													
BX-110	Cm244						L		TRAC	Cm243/244	1.15E+05	6.75E+04	
A103	Cm244						L		TRAC	Cm243/244	1.06E+05	6.25E+04	
SX-105	Cm244						L		TRAC	Cm243/244	9.37E+04	5.50E+04	
BX-111	Cm244						L		TRAC	Cm243/244	9.14E+04	5.37E+04	
BY-109	Cm244						L		TRAC	Cm243/244	8.66E+04	5.09E+04	
SX-104	Cm244						L		TRAC	Cm243/244	7.16E+04	4.21E+04	
S101	Cm244						L		TRAC	Cm243/244	7.01E+04	4.12E+04	
BY-101	Cm244						L		TRAC	Cm243/244	6.39E+04	3.75E+04	
T101	Cm244						L		TRAC	Cm243/244	4.86E+04	2.85E+04	
TX-109	Cm244						L		TRAC	Cm243/244	4.12E+04	2.42E+04	
BY-110	Cm244						L		TRAC	Cm243/244	3.89E+04	2.29E+04	
BY-104	Cm244						L		TRAC	Cm243/244	3.83E+04	2.25E+04	
BY-106	Cm244						L		TRAC	Cm243/244	3.65E+04	2.15E+04	
BY-108	Cm244						L		TRAC	Cm243/244	3.63E+04	2.13E+04	
BY-111	Cm244						L		TRAC	Cm243/244	3.62E+04	2.13E+04	
TY-103	Cm244						L		TRAC	Cm243/244	3.18E+04	1.87E+04	
BY-112	Cm244						L		TRAC	Cm243/244	3.13E+04	1.84E+04	
C101	Cm244						L		TRAC	Cm243/244	3.01E+04	1.77E+04	
BY-105	Cm244						L		TRAC	Cm243/244	3.00E+04	1.76E+04	
TY-102	Cm244						L		TRAC	Cm243/244	2.66E+04	1.57E+04	
T103	Cm244						L		TRAC	Cm243/244	2.58E+04	1.52E+04	
BY-107	Cm244						L		TRAC	Cm243/244	2.58E+04	1.52E+04	
SX-106	Cm244						L		TRAC	Cm243/244	2.28E+04	1.34E+04	
S108	Cm244						L		TRAC	Cm243/244	1.34E+04	7.89E+03	
TX-110	Cm244						L		TRAC	Cm243/244	1.22E+04	7.19E+03	
TX-108	Cm244						L		TRAC	Cm243/244	1.06E+04	6.25E+03	
U107	Cm244						L		TRAC	Cm243/244	1.00E+04	5.89E+03	
U111	Cm244						L		TRAC	Cm243/244	7.57E+03	4.45E+03	
AX-103	Cm244						L		TRAC	Cm243/244	7.14E+03	4.20E+03	
T102	Cm244						L		TRAC	Cm243/244	7.14E+03	4.19E+03	
B109	Cm244						L		TRAC	Cm243/244	6.65E+03	3.91E+03	
S111	Cm244						L		TRAC	Cm243/244	5.32E+03	3.12E+03	
S110	Cm244						L		TRAC	Cm243/244	5.04E+03	2.96E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Single-Shell Tank Liquids [Sketch ES-VAL-CR03]
 ASA Value: n/a

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Tank Waste Characterization Sample Information													Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	ID		
					Value	Unit										
A105	Cm244						L		TRAC	Cm243/244	3.02E+03	3.02E+03	1.78E+03			
B103	Cm244						L		TRAC	Cm243/244	2.46E+03	2.46E+03	1.45E+03			
TX-111	Cm244						L		TRAC	Cm243/244	1.63E+03	1.63E+03	9.56E+02			
TX-105	Cm244						L		TRAC	Cm243/244	1.23E+03	1.23E+03	7.23E+02			
U102	Cm244						L		TRAC	Cm243/244	7.67E+02	7.67E+02	4.51E+02			
B102	Cm244						L		TRAC	Cm243/244	4.70E+02	4.70E+02	2.76E+02			
B107	Cm244						L		TRAC	Cm243/244	3.92E+02	3.92E+02	2.30E+02			
S104	Cm244						L		TRAC	Cm243/244	3.51E+02	3.51E+02	2.06E+02			
C107	Cm244						L		TRAC	Cm243/244	3.13E+02	3.13E+02	1.84E+02			
S106	Cm244						L		TRAC	Cm243/244	2.46E+02	2.46E+02	1.44E+02			
TX-102	Cm244						L		TRAC	Cm243/244	2.32E+02	2.32E+02	1.36E+02			
B106	Cm244						L		TRAC	Cm243/244	2.09E+02	2.09E+02	1.23E+02			
C109	Cm244						L		TRAC	Cm243/244	1.56E+02	1.56E+02	9.17E+01			
C111	Cm244						L		TRAC	Cm243/244	1.29E+02	1.29E+02	7.60E+01			
BX-109	Cm244						L		TRAC	Cm243/244	9.67E+01	9.67E+01	5.68E+01			
S105	Cm244						L		TRAC	Cm243/244	8.93E+01	8.93E+01	5.25E+01			
C112	Cm244						L		TRAC	Cm243/244	8.87E+01	8.87E+01	5.21E+01			
BX-112	Cm244						L		TRAC	Cm243/244	7.77E+01	7.77E+01	4.56E+01			
TX-103	Cm244						L		TRAC	Cm243/244	7.50E+01	7.50E+01	4.40E+01			
TX-115	Cm244						L		TRAC	Cm243/244	7.19E+01	7.19E+01	4.22E+01			
TY-104	Cm244						L		TRAC	Cm243/244	6.75E+01	6.75E+01	3.97E+01			
U109	Cm244						L		TRAC	Cm243/244	6.46E+01	6.46E+01	3.80E+01			
TX-112	Cm244						L		TRAC	Cm243/244	5.92E+01	5.92E+01	3.48E+01			
TX-106	Cm244						L		TRAC	Cm243/244	5.02E+01	5.02E+01	2.95E+01			
T104	Cm244						L		TRAC	Cm243/244	3.71E+01	3.71E+01	2.18E+01			
U110	Cm244						L		TRAC	Cm243/244	3.56E+01	3.56E+01	2.09E+01			
T108	Cm244						L		TRAC	Cm243/244	3.37E+01	3.37E+01	1.98E+01			
BX-108	Cm244						L		TRAC	Cm243/244	3.20E+01	3.20E+01	1.88E+01			
TY-101	Cm244						L		TRAC	Cm243/244	1.93E+01	1.93E+01	1.13E+01			
B105	Cm244						L		TRAC	Cm243/244	1.46E+01	1.46E+01	8.60E+00			
TY-105	Cm244						L		TRAC	Cm243/244	1.02E+01	1.02E+01	6.00E+00			
TX-114	Cm244						L		TRAC	Cm243/244	4.96E+00	4.96E+00	2.91E+00			
TX-116	Cm244						L		TRAC	Cm243/244	1.53E+00	1.53E+00	9.01E-01			
T109	Cm244						L		TRAC	Cm243/244	1.47E+00	1.47E+00	8.65E-01			
TX-113	Cm244						L		TRAC	Cm243/244	9.83E-01	9.83E-01	5.77E-01			
TX-117	Cm244						L		TRAC	Cm243/244	6.37E-01	6.37E-01	3.74E-01			
B104	Cm244						L		TRAC	Cm243/244	6.31E-01	6.31E-01	3.71E-01			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Single-Shell Tank Liquids [Sketch ES-VAL-CR03]
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX-107	Cm244						L		TRAC	Cm243/244	6.03E-01	3.54E-01	
C108	Cm244						L		TRAC	Cm243/244	3.94E-01	2.32E-01	
U105	Cm244						L		TRAC	Cm243/244	3.07E-01	1.81E-01	
U108	Cm244						L		TRAC	Cm243/244	2.41E-01	1.41E-01	
U103	Cm244						L		TRAC	Cm243/244	8.87E-02	5.21E-02	
C201	Cm244						L		TRAC	Cm243/244	1.47E-03	8.64E-04	
TX-104	Cm244						L		TRAC	Cm243/244	2.62E-04	1.54E-04	
S107	Cm244						L		TRAC	Cm243/244	2.12E-04	1.25E-04	
A106	Cm244						L		TRAC	Cm243/244	1.03E-04	6.08E-05	
C204	Cm244						L		TRAC	Cm243/244	8.48E-05	4.98E-05	
TX-107	Cm244						L		TRAC	Cm243/244	8.39E-05	4.93E-05	
C102	Cm244						L		TRAC	Cm243/244	6.98E-05	4.10E-05	
S102	Cm244						L		TRAC	Cm243/244	3.84E-05	2.26E-05	
AX-101	Cm244						L		TRAC	Cm243/244	9.83E-06	5.77E-06	
SX-101	Cm244						L		TRAC	Cm243/244	3.63E-06	2.13E-06	
U104	Cm244						L		TRAC	Cm243/244	2.45E-06	1.44E-06	
TY-106	Cm244						L		TRAC	Cm243/244	1.37E-06	8.05E-07	
U106	Cm244						L		TRAC	Cm243/244	1.27E-06	7.45E-07	
C104	Cm244						L		TRAC	Cm243/244	1.07E-06	6.30E-07	
C110	Cm244						L		TRAC	Cm243/244	4.88E-08	2.87E-08	
C203	Cm244						L		TRAC	Cm243/244	1.94E-09	1.14E-09	
AX-102	Cm244						L		TRAC	Cm243/244	3.85E-13	2.26E-13	
BX-101	Cm244						L		TRAC	Cm243/244	1.72E-13	1.01E-13	
T107	Cm244						L		TRAC	Cm243/244	4.98E-15	2.92E-15	
C202	Cm244						L		TRAC	Cm243/244	2.18E-15	1.28E-15	
B101	Cm244						L		TRAC	Cm243/244	3.14E-25	1.85E-25	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Single-Shell Tank Solids (Sketch ES-VAL-CR04)
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B110	Cm244	4/1/90		1.31	0.0057207	uCi/g	I		RAW	Cm243/244	2.77E+05	2.31E+05	5
B110	Cm244	4/1/90		1.36	0.0033333	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	1.68E+05	1.40E+05	5
B111	Cm243/244	10/1/91	B08XC2	1.6	0.002	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	1.18E+05	1.05E+05	5
B110	Cm244	4/1/90		1.37	0.0024459	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	1.24E+05	1.03E+05	5
B110	Cm244	4/1/90		1.31	0.0022613	uCi/g	I		RAW	Cm243/244	1.10E+05	9.15E+04	5
B110	Cm244	4/1/90		1.21	0.0023153	uCi/g	I		RAW	Cm243/244	1.04E+05	8.65E+04	5
C112	Cm243/244	3/1/92	B08DW5	1.6	0.0015	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	8.88E+04	7.97E+04	5
C112	Cm243/244	3/1/92	B08DW5	1.6	0.0012	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	7.10E+04	6.38E+04	5
T102	Cm243/244	3/1/93	B0B732	1.3166667	0.0014	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	6.82E+04	6.36E+04	5
T102	Cm243/244	3/1/93	B0B732	1.3166667	0.0011	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	5.36E+04	5.00E+04	5
B110	Cm244	4/1/90		1.36	0.0007658	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	3.85E+04	3.22E+04	5
B111	Cm243/244	4/15/93	93-4316H1		0.00053	uCi/gm	G	Sludge	Braun	Cm243/244	3.14E+04	2.94E+04	5
B110	Cm244	4/1/90		1.21	0.0007613	uCi/g	I		RAW	Cm243/244	3.41E+04	2.84E+04	5
B110	Cm244	4/1/90		1.36	0.0006667	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	3.35E+04	2.80E+04	5
B111	Cm243/244	10/1/91	B08XC2	1.6	0.00053	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	3.14E+04	2.77E+04	5
B110	Cm244	4/1/90		1.36	0.0006216	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	3.13E+04	2.61E+04	5
B110	Cm244	4/1/90		1.37	0.0005721	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	2.90E+04	2.42E+04	5
B110	Cm244	4/1/90		1.36	0.0005405	uCi/g	I		RAW	Cm243/244	2.72E+04	2.27E+04	5
B111	Cm243/244	4/15/93	93-4312H1		0.00038	uCi/gm	G	Sludge	Braun	Cm243/244	2.25E+04	2.11E+04	5
B111	Cm243/244	10/1/91	B08XC0	1.6	0.00038	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	2.25E+04	1.99E+04	5
B111	Cm243/244	10/1/91	B08XC0	1.6	0.00025	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	1.48E+04	1.31E+04	5
B110	Cm244	4/1/90		1.34	0.0002793	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	1.38E+04	1.16E+04	5
B110	Cm244	4/1/90		1.34	0.0002631	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	1.30E+04	1.09E+04	5
B111	Cm243/244	10/1/91	B08XC1	1.6	0.00017	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	1.01E+04	8.89E+03	5
B110	Cm244	4/1/90		1.36	0.0002104	uCi/g	I		RAW	Cm243/244	1.06E+04	8.84E+03	5
B111	Cm243/244	10/1/91	B08XC1	1.6	0.00016	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	9.47E+03	8.37E+03	5
B110	Cm244	4/1/90		1.17	0.0002234	uCi/g	I		RAW	Cm243/244	9.67E+03	8.07E+03	5
B111	Cm243/244	10/1/91	B08XC3	1.6	0.00014	uCi/g	S	DUPLICATE RESULT	TCD	Cm243/244	8.29E+03	7.32E+03	5
B110	Cm244	4/1/90		1.17	0.0001977	uCi/g	I		RAW	Cm243/244	8.56E+03	7.15E+03	5
B111	Cm243/244	10/1/91	B08XC3	1.6	0.00013	uCi/g	S	PRIMARY RESULT	TCD	Cm243/244	7.70E+03	6.80E+03	5
B110	Cm244	4/1/90		1.36	7.658E-05	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	3.85E+03	3.22E+03	5
B110	Cm244	4/1/90		1.36	5.676E-06	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	2.86E+02	2.38E+02	5
B110	Cm244	4/1/90		1.36	4.55E-06	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	2.29E+02	1.91E+02	5
Minimum Plot Limit: 1.00E+02 Bq/L													
B110	Cm244	4/1/90		1.33	1.667E-06	uCi/g	I	PRIMARY	B110 - Core Dat	Cm243/244	8.20E+01	6.85E+01	5
B110	Cm244	4/1/90		1.33	1.392E-06	uCi/g	I	DUPLICATE	B110 - Core Dat	Cm243/244	6.85E+01	5.72E+01	5

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Liquids [Sketch ES-VAL-CR05]
 ASA Value: 1.2E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C106	Co60	4/1/90	RAT-C106-4B		0.98	ugm/gm	U	Unknown	Braun	Co60	4.52E+10	2.42E+10	2
C105	Co60	2/1/91			617	uCi/g	U	N2O2/Zr	RAW	Co60	2.51E+10	1.50E+10	2
C105	Co60	2/1/91			373	nCi/g	U	KOH/Ni	RAW	Co60	2.21E+10	1.32E+10	2
C105	Co60	4/1/90	RAT-C105-4B		0.495	ugm/gm	U	Unknown	Braun	Co60	2.28E+10	1.22E+10	2
S102	Co60	4/5/79		1.257	417	uCi/ml	O		RAW	Co60	1.54E+10	1.96E+09	6
TX118	Co60	6/9/75	T-5253	1.08	62700	uCi/gal	P	Supernate	Braun	Co60	6.13E+08	4.72E+07	7
TX118	Co60	6/9/75	T-5253	1.08	62700	uCi/gal	L		RAW	Co60	6.13E+08	4.72E+07	7
SX106	Co60	2/28/77	RAT-SX106-2	1.45	3450	uCi/l	P	Supernate	Braun	Co60	1.28E+08	1.23E+07	8
SX106	Co60	2/28/77	RAT-SX106-2	1.58	3450	uCi/l	P	Supernate	Braun	Co60	1.28E+08	1.23E+07	8
SX106	Co60	2/28/77	RAT-SX106-2	1.6	3450	uCi/l	P	Supernate	Braun	Co60	1.28E+08	1.23E+07	8
SX106	Co60	2/28/77		1.45	3450	uCi/L	P	Supernatant	RAW	Co60	1.28E+08	1.23E+07	8
C104	Co60	12/18/75	T-769	1.16	15200	uCi/gal	P	Supernate	Braun	Co60	1.49E+08	1.23E+07	8
ASA Value: 1.2E+07 Bq/L													
AX102	Co60	11/14/88					P	Supernate	Wastren	Co60	2.63E+07	1.18E+07	*
AX102	Co60	11/14/88	RAT-AX102-3		710	uCi/l	P	Supernate	Braun	Co60	2.63E+07	1.18E+07	*
AX102	Co60	11/14/88			710	uCi/L	P	Supernatant	RAW	Co60	2.63E+07	1.18E+07	*
S102	Co60	1/6/75	T-841	1.4346	15600	uCi/gal	P	Supernate	Braun	Co60	1.52E+08	1.11E+07	
S102	Co60	1/6/75	841	1.4346	15600	uCi/gal	L	No solids	RAW	Co60	1.52E+08	1.11E+07	
C106	Co60	3/15/76	T-3294	1.16	12100	uCi/gal	P	Supernate	Braun	Co60	1.18E+08	1.01E+07	
C106	Co60	3/15/76	T-3294	1.162	12100	uCi/gal	O	Other	RAW	Co60	1.18E+08	1.01E+07	
SX106	Co60	4/18/78	8301	1.33	2030	uCi/l	P	Supernate	Braun	Co60	7.51E+07	8.41E+06	
SX106	Co60	4/18/78	8301	1.37	2030	uCi/l	P	Supernate	Braun	Co60	7.51E+07	8.41E+06	
SX106	Co60	4/18/78		1.37	2030	uCi/L	P	Supernatant	RAW	Co60	7.51E+07	8.41E+06	
C104	Co60	12/1/75	T-225	1.164	9460	uCi/gal	P	Supernate	Braun	Co60	9.25E+07	7.58E+06	
C104	Co60	12/1/75	T-225	1.164	9460	uCi/gal	L	no solids	RAW	Co60	9.25E+07	7.58E+06	
C104	Co60	10/6/75	T-8583	1.227	9020	uCi/gal	P	Supernate	Braun	Co60	8.82E+07	7.08E+06	
C104	Co60	10/6/75	T-8583	1.227	9020	uCi/gal	O		RAW	Co60	8.82E+07	7.08E+06	
U102	Co60	3/1/76	RAT-U102-1	1.27	2100	uCi/l	P	Supernate	Braun	Co60	7.77E+07	6.58E+06	
U102	Co60	3/1/76	RAT-U102-1	1.38	2100	uCi/l	P	Supernate	Braun	Co60	7.77E+07	6.58E+06	
U102	Co60	3/1/76	RAT-U102-1	1.6	2100	uCi/l	P	Supernate	Braun	Co60	7.77E+07	6.58E+06	
U102	Co60	3/1/76		1.27	2100	uCi/l	P	Supernatant	RAW	Co60	7.77E+07	6.58E+06	
U102	Co60	3/1/76					P	Supernate	Wastren	Co60	7.77E+07	6.58E+06	
BX110	Co60	5/20/75			2260	uCi/L	L	solutions	RAW	Co60	8.36E+07	6.39E+06	
C104	Co60	5/19/87	D1XDXXXX	1.18	398	uCi/l	L	Drainable Liquor	RAW	Co60	1.47E+07	5.42E+06	
C104	Co60	12/5/75	T-374	1.137	6300	uCi/gal	P	Supernate	Braun	Co60	6.16E+07	5.05E+06	
C104	Co60	12/5/75	T-374	1.137	6300	uCi/gal	O		RAW	Co60	6.16E+07	5.05E+06	
C104	Co60	4/15/86	D1XD00XX	1.18	398	uCi/l	L	Liquor	Braun	Co60	1.47E+07	4.70E+06	
C104	Co60	4/15/86					L	Drainable Liquid	Wastren	Co60	1.47E+07	4.69E+06	
TX118	Co60	6/8/75	T-5179	1.18	6140	uCi/gal	P	Supernate	Braun	Co60	6.00E+07	4.61E+06	
TX118	Co60	6/8/75	T-5179	1.18	6140	uCi/gal	L		RAW	Co60	6.00E+07	4.61E+06	
C106	Co60	1/1/76	8	1.18	1448	uCi/L	L		RAW	Co60	5.36E+07	4.44E+06	
C106	Co60	9/15/75	T-8059	1.18	5480	uCi/gal	P	Supernate	Braun	Co60	5.36E+07	4.27E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Liquids [Sketch ES-VAL-CR05]
 ASA Value: 1.2E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C106	Co60	9/15/75	T-8059	1.8	5480	uCi/gal	U	Unknown, cruddy	RAW	Co60	5.36E+07	4.27E+06	
C106	Co60	9/8/75	T-7808	1.14	4760	uCi/gal	P	Supernate	Braun	Co60	4.65E+07	3.70E+06	
C106	Co60	9/8/75	T-7808	1.14	4760	uCi/gal	O	Other	RAW	Co60	4.65E+07	3.70E+06	
TX118	Co60	5/29/75	T-4900	1.2	4820	uCi/gal	P	Supernate	Braun	Co60	4.71E+07	3.61E+06	
C102	Co60	6/3/91					P	Supernate	Wastren	Co60	5.59E+06	3.50E+06	
C102	Co60	6/3/91	R-8089	1.15	151	uCi/l	P	Supernate	Braun	Co60	5.59E+06	3.50E+06	
S102	Co60	11/4/74	T-7562	1.4345	4540	uCi/gal	P	Supernate	Braun	Co60	4.44E+07	3.16E+06	
T105	Co60	5/28/93	B08WT3	0.9933333	0.0909	uCi/g	L	PRIMARY RESULT	TCD	Co60	3.34E+06	2.71E+06	
TX118	Co60	12/28/75	T-1036	1.18	3230	uCi/gal	P	Supernate	Braun	Co60	3.16E+07	2.61E+06	
TX118	Co60	12/28/75	T-1036	1.178	3230	uCi/gal	O		RAW	Co60	3.16E+07	2.61E+06	
TX118	Co60	9/8/75	T-7817	1.16	3320	uCi/gal	P	Supernate	Braun	Co60	3.24E+07	2.58E+06	
TX118	Co60	9/8/75	T-7817	1.1586	3320	uCi/gal	O	NO SOLIDS	RAW	Co60	3.24E+07	2.58E+06	
BX105	Co60	5/19/87	B1XDXXXX	1.291	178	uCi/l	L	Drainable Liquor	RAW	Co60	6.59E+06	2.43E+06	
BX105	Co60	5/19/87	B2XDXXXX	1.294	177	uCi/l	L	Drainable Liquor	RAW	Co60	6.55E+06	2.41E+06	
TX118	Co60	9/2/75	T-7617	1.24	2970	uCi/gal	P	Supernate	Braun	Co60	2.90E+07	2.30E+06	
TX118	Co60	9/2/75	T-7617	1.2367	2970	uCi/gal	O	NO SOLIDS	RAW	Co60	2.90E+07	2.30E+06	
S102	Co60	9/19/75	4963	1.4	2850	uCi/gal	L	Solid unknow	RAW	Co60	2.79E+07	2.22E+06	
A101	Co60	6/25/74	T-5315		3280	uCi/gal	O	Other	RAW	Co60	3.21E+07	2.18E+06	
C102	Co60	9/26/75	T-8306	1.136	2760	uCi/gal	P	Supernate	Braun	Co60	2.70E+07	2.16E+06	
C102	Co60	9/26/75	T-8306	1.136	2760	uCi/gal	L	No solids	RAW	Co60	2.70E+07	2.16E+06	
S102	Co60	6/2/75	T-4963	1.4	2850	uCi/gal	P	Supernate	Braun	Co60	2.79E+07	2.14E+06	
BX105	Co60	3/3/86	81XD00XX	1.29	178	uCi/l	L	Liquor	Braun	Co60	6.59E+06	2.07E+06	
BX105	Co60	3/4/86					P	Supernate	Wastren	Co60	6.55E+06	2.06E+06	
BX105	Co60	3/4/86	82XD00XX	1.29	177	uCi/l	L	Liquor	Braun	Co60	6.55E+06	2.06E+06	
S102	Co60	2/17/76	T-2395	1.25	2360	uCi/gal	L	No solids	RAW	Co60	2.31E+07	1.94E+06	
S102	Co60	1/31/79	RAT-S102-3	1.257	417	uCi/l	P	Supernate	Braun	Co60	1.54E+07	1.92E+06	
TX118	Co60	1/20/75	T-1542		2620	uCi/gal	P	Supernate	Braun	Co60	2.56E+07	1.87E+06	
TX118	Co60	1/20/75	T-1542		2620	uCi/gal	U		RAW	Co60	2.56E+07	1.87E+06	
TX101	Co60	7/24/75	T-6426	1.168	2360	uCi/gal	U		RAW	Co60	2.31E+07	1.80E+06	
TX109	Co60	2/2/76	T-2034	1.386	2150	uCi/gal	P	Supernate	Braun	Co60	2.10E+07	1.76E+06	
TX109	Co60	2/2/76	T-2034	1.396	2150	uCi/gal	O	NO SOLIDS	RAW	Co60	2.10E+07	1.76E+06	
TX118	Co60	11/24/75	T-87	1.255	2200	uCi/gal	P	Supernate	Braun	Co60	2.15E+07	1.76E+06	
TX118	Co60	11/24/75	T-87	1.255	2200	uCi/gal	O		RAW	Co60	2.15E+07	1.76E+06	
TX118	Co60	12/15/75	T-681	1.31	2180	uCi/gal	P	Supernate	Braun	Co60	2.13E+07	1.76E+06	
TX118	Co60	12/15/75	T-681	1.308	2180	uCi/gal	O		RAW	Co60	2.13E+07	1.76E+06	
C103	Co60	6/3/91					P	Supernate	Wastren	Co60	2.74E+06	1.71E+06	
C103	Co60	6/3/91	R-8108	1.07	74	uCi/l	P	Supernate	Braun	Co60	2.74E+06	1.71E+06	
C103	Co60	3/28/75	T-3097	1.1434	2320	uCi/gal	P	Supernate	Braun	Co60	2.27E+07	1.70E+06	
SX106	Co60	12/6/74	T-8041	1.004	2330	uCi/gal	P	Supernate	Braun	Co60	2.28E+07	1.64E+06	
SX106	Co60	12/6/74	T-8041	1.004	2330	uCi/gal	L	No solids	RAW	Co60	2.28E+07	1.64E+06	
TX118	Co60	7/21/75	T-6309	1.16	2110	uCi/gal	P	Supernate	Braun	Co60	2.06E+07	1.61E+06	
TX118	Co60	7/21/75	T-6309	1.16	2110	uCi/gal	U		RAW	Co60	2.06E+07	1.61E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Liquids [Sketch ES-VAL-CR05]
 ASA Value: 1.2E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
A106	Co60	6/25/74	T-5316		2420	uCi/gal	P	Supernate	Braun	Co60	2.37E+07	1.61E+06	
A106	Co60	6/25/74	T-5316		2420	uCi/gal	O	Other	RAW	Co60	2.37E+07	1.61E+06	
TX118	Co60	4/24/75	T-3909	1.2257	2170	uCi/gal	P	Supernate	Braun	Co60	2.12E+07	1.61E+06	
TX118	Co60	4/24/75	T-3909	1.2257	2170	uCi/gal	O	NO SOLIDS	RAW	Co60	2.12E+07	1.61E+06	
TX118	Co60	4/10/75	T-3491	1.22	2170	uCi/gal	P	Supernate	Braun	Co60	2.12E+07	1.60E+06	
TX118	Co60	4/10/75	T-3491	1.22	2170	uCi/gal	L		RAW	Co60	2.12E+07	1.60E+06	
TX118	Co60	8/11/75	T-6959	1.1653	2060	uCi/gal	P	Supernate	Braun	Co60	2.01E+07	1.59E+06	
TX118	Co60	8/11/75	T-6959	1.1653	2060	uCi/gal	O	NO SOLIDS	RAW	Co60	2.01E+07	1.59E+06	
C103	Co60	6/3/91	R-8109	1.06	67	uCi/l	P	Supernate	Braun	Co60	2.48E+06	1.55E+06	
C103	Co60	5/1/75	T-4073	1.16	1990	uCi/gal	P	Supernate	Braun	Co60	1.95E+07	1.48E+06	
A106	Co60	3/11/86	A1XDOOXX	1.35	125	uCi/l	L	Liquor	Braun	Co60	4.63E+06	1.46E+06	
TX118	Co60	9/18/75	T-7177	1.12	1640	uCi/gal	P	Supernate	Braun	Co60	1.60E+07	1.28E+06	
TX118	Co60	8/18/75	T-7177	1.1225	1640	uCi/gal	O	NO SOLIDS	RAW	Co60	1.60E+07	1.27E+06	
TX101	Co60	10/5/76	T-7478	1.189	1400	uCi/gal	O	NO SOLIDS	RAW	Co60	1.37E+07	1.25E+06	
S102	Co60	9/8/75	7748	1.2748	1550	uCi/gal	O		RAW	Co60	1.51E+07	1.20E+06	
S102	Co60	3/25/74	T-3145	1.3463	1620	uCi/gal	P	Supernate	Braun	Co60	1.58E+07	1.04E+06	
S102	Co60	3/25/74	3145	1.3463	1620	uCi/gal	O		RAW	Co60	1.58E+07	1.04E+06	
C104	Co60	11/19/74	T-5312	1.1539	1340	uCi/gal	P	Supernate	Braun	Co60	1.31E+07	9.38E+05	
A102	Co60	12/23/80	RAT-A102-2	1.452	153	uCi/l	F	Filtrate	Braun	Co60	5.66E+06	9.01E+05	
A102	Co60	12/23/80		1.452	153	uCi/L	O	30% crystals	RAW	Co60	5.66E+06	9.01E+05	
C103	Co60	1/24/75	T-1685	1.1729	1210	uCi/gal	P	Supernate	Braun	Co60	1.18E+07	8.67E+05	
C103	Co60	1/24/75	T-1685	1.1729	1210	uCi/gal	O	Other	RAW	Co60	1.18E+07	8.67E+05	
TX118	Co60	9/29/75	T-8404	1.229	1100	uCi/gal	P	Supernate	Braun	Co60	1.08E+07	8.61E+05	
S102	Co60	11/19/74	9601	1.4554	1160	uCi/gal	O		RAW	Co60	1.13E+07	8.12E+05	
S102	Co60	3/17/75	T-2768	1.34	1080	uCi/gal	P	Supernate	Braun	Co60	1.06E+07	7.88E+05	
A102	Co60	8/19/75	T-7252	1.087	918	uCi/gal	P	Supernate	Braun	Co60	8.97E+06	7.08E+05	
A102	Co60	8/19/75	T-7252	1.087	918	uCi/gal	L	no solids	RAW	Co60	8.97E+06	7.08E+05	
T109	Co60	3/13/74					P	Supernate	Wastren	Co60	1.04E+07	6.80E+05	
T109	Co60	3/13/74	T-2289	1.1982	1060	uCi/gal	P	Supernate	Braun	Co60	1.04E+07	6.78E+05	
T109	Co60	3/13/74	T-2289	1.1982	1060	uCi/gal	L	NO SOLIDS	RAW	Co60	1.04E+07	6.78E+05	
TX118	Co60	6/25/74	T-5327	1.3995	882	uCi/gal	P	Supernate	Braun	Co60	8.62E+06	5.85E+05	
TX118	Co60	6/25/74	T-5327	1.3995	882	uCi/gal	O		RAW	Co60	8.62E+06	5.85E+05	
C103	Co60	5/19/87	F2XDXXXX	1.08	39.3	uCi/l	L	Drainable Liquor	RAW	Co60	1.45E+06	5.36E+05	
S102	Co60	9/3/75	T-7703	1.3308	664	uCi/gal	P	Supernate	Braun	Co60	6.49E+06	5.15E+05	
S102	Co60	9/3/75	7703	1.3308	664	uCi/gal	L	No solids	RAW	Co60	6.49E+06	5.15E+05	
C103	Co60	5/14/86	F2XDOOXX	1.08	39.3	uCi/l	L	Liquor	Braun	Co60	1.45E+06	4.69E+05	
S102	Co60	8/25/75	T-7340	1.395	562	uCi/gal	P	Supernate	Braun	Co60	5.49E+06	4.35E+05	
S102	Co60	8/25/75	7340	1.395	562	uCi/gal	L	No solids	RAW	Co60	5.49E+06	4.35E+05	
A102	Co60	3/8/86	92XDOOXX	1.51	34.6	uCi/l	L	Liquor	Braun	Co60	1.28E+06	4.03E+05	
T105	Co60	9/17/74		1.213	556	uCi/gal	L	TRACE OF SOLIDS	RAW	Co60	5.43E+06	3.80E+05	
TX105	Co60	9/17/74	T-4927	1.213	556	uCi/gal	P	Supernate	Braun	Co60	5.43E+06	3.80E+05	
S102	Co60	9/2/75	T-7627	1.1716	408	uCi/gal	P	Supernate	Braun	Co60	3.99E+06	3.16E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Liquids [Sketch ES-VAL-CR05]
 ASA Value: 1.2E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S102	Co60	9/2/75	7627	1.1716	408	uCi/gal	L	No solids	RAW	Co60	3.99E+06	3.16E+05	
S102	Co60	6/17/74	T-3770	1.315	466	uCi/gal	P	Supernate	Braun	Co60	4.55E+06	3.08E+05	
S102	Co60	6/17/74	3770	1.315	466	uCi/gal	O		RAW	Co60	4.55E+06	3.08E+05	
A103	Co60	3/26/86	B1XDOOXX	1.476	22.2	uCi/l	L	Liquor	Braun	Co60	8.21E+05	2.60E+05	
A102	Co60	3/6/86	91XDOOXX	1.52	17	uCi/l	L	Liquor	Braun	Co60	6.29E+05	1.98E+05	
C105	Co60	4/11/86					L	Drainable Liquid	Wastren	Co60	6.14E+05	1.96E+05	
C110	Co60	4/23/92	B08VM5	1.0033333	0.0072	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.66E+05	1.87E+05	
A103	Co60	4/3/86	B2XDOOXX	1.48	15.9	uCi/l	L	Liquor	Braun	Co60	5.88E+05	1.87E+05	
A103	Co60	4/3/86					L	Drainable Liquid	Wastren	Co60	5.88E+05	1.87E+05	
C106	Co60	4/14/87		1.43	12.7	uCi/L	L	Drainable Liquor	RAW	Co60	4.70E+05	1.71E+05	
S107	Co60	11/6/73	178	1.14	250	uCi/gal	P	Supernate	Braun	Co60	2.44E+05	1.53E+05	
C106	Co60	5/19/86					L	Drainable Liquid	Wastren	Co60	4.70E+05	1.52E+05	
C106	Co60	5/19/86		1.22	12.7	uCi/L	L	Liquid	RAW	Co60	4.70E+05	1.52E+05	
A106	Co60	3/13/86	A2XDOOXX	1.36	13	uCi/l	L	Liquor	Braun	Co60	4.81E+05	1.52E+05	
A106	Co60	3/13/86					L	Drainable Liquid	Wastren	Co60	4.81E+05	1.52E+05	
C110	Co60	4/23/92	B08VM5	1.0033333	0.00561	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.08E+05	1.46E+05	
C112	Co60	3/1/92	B08DT5	1.1	0.00432	uCi/g	L	DUPLICATE RESULT	TCD	Co60	1.76E+05	1.21E+05	
C106	Co60	1/24/77		1.21	34.1	uCi/L	P	supernatant	RAW	Co60	1.26E+06	1.20E+05	
SX101	Co60	10/29/80	RAT-SX101-2	1.028	20.8	uCi/l	P	Supernate	Braun	Co60	7.70E+05	1.20E+05	
SX101	Co60	10/29/80		1.028	20.8	uCi/L	O		RAW	Co60	7.70E+05	1.20E+05	
S107	Co60	11/17/73	476	1.1592	190	uCi/gal	P	Supernate	Braun	Co60	1.86E+06	1.17E+05	
C112	Co60	3/1/92	B08DT5	1.1	0.00412	uCi/g	L	PRIMARY RESULT	TCD	Co60	1.68E+05	1.16E+05	
C112	Co60	3/1/92	B08DZ5	1.4	0.00323	uCi/g	L	PRIMARY RESULT	TCD	Co60	1.67E+05	1.15E+05	
BX102	Co60	3/1/70	527		277	uCi/gal	P	Supernate	Braun	Co60	2.71E+06	1.04E+05	
BX104	Co60	2/26/86					L	Drainable Liquid	Wastren	Co60	3.32E+05	1.04E+05	
Minimum Plot Limit: 1.00E+05 Bq/L													
TY104	Co60	7/1/87	241DXXXX		7.14	uCi/l	L	Drainable Liquor	RAW	Co60	2.64E+05	9.88E+04	
C112	Co60	3/1/92	B08DZ5	1.4	0.00267	uCi/g	L	DUPLICATE RESULT	TCD	Co60	1.38E+05	9.54E+04	
C106	Co60	10/10/74	RAT-C106-2	1.21	34.1	uCi/l	P	Supernate	Braun	Co60	1.26E+06	8.90E+04	
C106	Co60	10/10/74		1.21	34.1	uCi/L	P	supernatant	RAW	Co60	1.26E+06	8.90E+04	
TY104	Co60	8/6/85	241DOOOO	1.18	7.14	uCi/l	L	Liquor	Braun	Co60	2.64E+05	7.70E+04	
C110	Co60	4/23/92	B08VH6	1.1833333	0.0018	uCi/g	L	DUPLICATE RESULT	TCD	Co60	7.88E+04	5.54E+04	
TY103	Co60	8/21/85	37XDOOOO		4.14	uCi/l	L	Liquor	Braun	Co60	1.53E+05	4.49E+04	
C110	Co60	4/23/92	B08VH6	1.1833333	0.00142	uCi/g	L	PRIMARY RESULT	TCD	Co60	6.22E+04	4.37E+04	
T107	Co60	3/1/93	B08V58	1.2	0.00135	uCi/mL	L	PRIMARY RESULT	TCD	Co60	5.00E+04	3.93E+04	
S107	Co60	12/17/74	T-8078	1.201	54.54	uCi/gal	P	Supernate	Braun	Co60	5.33E+05	3.85E+04	
S107	Co60	12/17/74	T-8078	1.201	54.54	uCi/gal	L	No solids	RAW	Co60	5.33E+05	3.85E+04	
C110	Co60	4/23/92	B08VP9	1.1	0.00142	uCi/mL	L	PRIMARY RESULT	TCD	Co60	5.25E+04	3.69E+04	
C112	Co60	3/1/92	B08DT5	1.1	0.00123	uCi/g	L	PRIMARY RESULT	TCD	Co60	5.01E+04	3.45E+04	
C110	Co60	4/23/92	B08VP9	1.1	0.00131	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.85E+04	3.41E+04	
T107	Co60	3/1/93	B08V58	1.2	0.0011	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.07E+04	3.20E+04	
TY104	Co60	8/12/85					P	Supernate	Wastren	Co60	8.81E+04	2.57E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Liquids [Sketch ES-VAL-CR05]
 ASA Value: 1.2E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TY103	Co60	6/30/87	31XDXXXX	1.22	1.7	uCi/l	L	Drainable Liquor	RAW	Co60	6.29E+04	2.35E+04	
TY103	Co60	6/30/87	33XDXXXX	1.24	1.67	uCi/l	L	Drainable Liquor	RAW	Co60	6.18E+04	2.31E+04	
C110	Co60	4/23/92	B08VM5	1.0033333	0.00083	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	3.07E+04	2.16E+04	
C110	Co60	4/23/92	B08VP9	1.1	0.00083	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	3.07E+04	2.16E+04	
C110	Co60	4/23/92	B08VH6	1.1833333	0.00083	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	3.07E+04	2.16E+04	
C112	Co60	3/1/92	B08DT5	1.1	0.00073	uCi/g	L	DUPLICATE RESULT	TCD	Co60	2.98E+04	2.05E+04	
TY102	Co60	9/9/85					L	Drainable Liquid	Wastren	Co60	6.48E+04	1.91E+04	
TY102	Co60	9/9/85	41XD0000		1.75	uCi/l	L	Liquor	Braun	Co60	6.48E+04	1.91E+04	
TY103	Co60	8/21/85					L	Drainable Liquid	Wastren	Co60	6.51E+04	1.91E+04	
C110	Co60	4/23/92	B08VM5	1.0033333	0.00073	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.69E+04	1.89E+04	
C110	Co60	4/23/92	B08VP9	1.1	0.00073	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.69E+04	1.89E+04	
C110	Co60	4/23/92	B08VH6	1.1833333	0.00073	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.69E+04	1.89E+04	
TY103	Co60	8/21/85	31XD0000	1.22	1.7	uCi/l	L	Liquor	Braun	Co60	6.29E+04	1.84E+04	
TY103	Co60	8/21/85	33XD0000	1.24	1.67	uCi/l	L	Liquor	Braun	Co60	6.18E+04	1.81E+04	
T107	Co60	3/1/93	B08V16	1.02	0.00053	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.95E+04	1.54E+04	
T107	Co60	3/1/93	B08V16	1.02	0.00041	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.50E+04	1.18E+04	
T107	Co60	3/1/93	B08VB5	1.105	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.59E+03	3.61E+03	
T107	Co60	3/1/93	B08VB5	1.105	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.59E+03	3.61E+03	
T104	Co60	8/26/92	B08TQ7	1.1	0.00013	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.85E+03	3.56E+03	
T104	Co60	8/26/92	B08TQ7	1.1	0.00011	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.07E+03	2.99E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C106	Co60	5/19/86	G1XCOOXX	1.43	0.888	ugm/gm	G	Sludge/Composite	Braun	Co60	5.32E+10	1.72E+10	6
C106	Co60	5/19/86	G1XCOOXX	1.43	0.555	ugm/gm	G	Sludge/Composite	Braun	Co60	3.33E+10	1.07E+10	6
SX115	Co60	3/10/75					G	Sludge	Wastren	Co60	1.18E+10	8.79E+08	6
ASA Value: 5.26E+08 Bq/L													
AX102	Co60	7/20/77	1		140000	uCi/L	G	sludge	RAW	Co60	5.18E+09	5.26E+08	*
AX104	Co60	9/15/77	48-JS#22&24-AL230	1.8	0.11	Ci/L	G	sludge	RAW	Co60	4.07E+09	4.22E+08	
AX104	Co60	10/14/74	RAT-AX104-1	1.61	0.15	Ci/l	G	Sludge	Braun	Co60	5.55E+09	3.92E+08	
AX104	Co60	10/14/74		1.61	0.15	Ci/L	G	sludge	RAW	Co60	5.55E+09	3.92E+08	
AX104	Co60	7/10/74		1.609	0.15	Ci/L	G	sludge	RAW	Co60	5.55E+09	3.79E+08	
A104	Co60	10/4/74		1.64	59400	uCi/L	G	Sludge	RAW	Co60	2.20E+09	1.55E+08	
A104	Co60	9/4/74					G	Sludge	Wastren	Co60	2.20E+09	1.53E+08	
A104	Co60	9/4/74	RAT-A104-1	1.64	59400	uCi/l	G	Sludge	Braun	Co60	2.20E+09	1.53E+08	
C103	Co60	5/7/86	F1XCOOXX	1.13	6.75	uCi/gm	G	Sludge/Composite	Braun	Co60	2.82E+08	9.08E+07	
SX115	Co60	3/10/75	RAT-SX115-1	1.55	31900	uCi/l	G	Sludge	Braun	Co60	1.18E+09	8.79E+07	
SX115	Co60	3/10/75		0.55	31900	uCi/L	S	Dry	RAW	Co60	1.18E+09	8.79E+07	
S107	Co60	11/6/73		1.1071	37087	uCi/L	O		RAW	Co60	1.37E+09	8.58E+07	
C103	Co60	5/7/86	F1XCOOXX	1.13	6.06	uCi/gm	G	Sludge/Composite	Braun	Co60	2.53E+08	8.15E+07	
C103	Co60	9/22/86		1.54	3.31	uCi/g	I	core	RAW	Co60	1.89E+08	6.38E+07	
C103	Co60	5/14/86	F2XCOOXX	1.54	3.31	uCi/gm	G	Sludge/Composite	Braun	Co60	1.89E+08	6.08E+07	
C103	Co60	5/14/86	F2XCOOXX	1.54	3.29	uCi/gm	G	Sludge/Composite	Braun	Co60	1.87E+08	6.05E+07	
C105	Co60	11/21/72			13	uCi/g	G	sludge	RAW	Co60	7.70E+08	4.24E+07	
C105	Co60	11/21/72	RAT-C105-1	1.52	13	uCi/gm	G	Sludge	Braun	Co60	7.31E+08	4.03E+07	
AX102	Co60	9/25/74	RAT-AX102-2	1.57	13100	uCi/l	G	Sludge	Braun	Co60	4.85E+08	3.40E+07	
AX102	Co60	9/25/74		1.57	13100	uCi/L	G	sludge	RAW	Co60	4.85E+08	3.40E+07	
B110	Co60	4/1/90		1.31	1.244	uCi/g	I		RAW	Co60	6.03E+07	3.23E+07	
C106	Co60	4/1/90	1		788	uCi/kg	S		RAW	Co60	4.66E+07	2.50E+07	
C107	Co60	9/26/77	T-510-33		5900	uCi/l	G	Sludge	Braun	Co60	2.18E+08	2.27E+07	
C107	Co60	9/26/77	AL#3143/3144		5900	uCi/L	S	solid	RAW	Co60	2.18E+08	2.27E+07	
A102	Co60	2/24/87	91XCXXXX	1.52	1.07	uCi/g	I	core composite	RAW	Co60	6.02E+07	2.15E+07	
A106	Co60	1/5/88	A2XCXXXX	1.54	0.936	uCi/g	I	Core composite	RAW	Co60	5.33E+07	2.13E+07	
C107	Co60	8/2/77	T-8110-10		4880	uCi/l	G	Sludge	Braun	Co60	1.81E+08	1.84E+07	
C102	Co60	6/17/87			0.817	uCi/g	G	parr	RAW	Co60	4.84E+07	1.80E+07	
C106	Co60	4/14/87		1.43	0.88	uCi/g	I	Composite	RAW	Co60	4.66E+07	1.69E+07	
C106	Co60	5/19/86			0.88	uCi/g	S	Solids	RAW	Co60	5.21E+07	1.68E+07	
SX107	Co60	1/29/77					G	Sludge	Wastren	Co60	1.76E+08	1.68E+07	
SX107	Co60	1/29/77	1345	1.33	4750	uCi/l	A	Salts	Braun	Co60	1.76E+08	1.68E+07	
SX107	Co60	1/29/77	1345	1.33	4750	uCi/L	A	SALT	RAW	Co60	1.76E+08	1.68E+07	
B110	Co60	4/1/90		1.31	0.6418	uCi/g	I		RAW	Co60	3.11E+07	1.67E+07	
C102	Co60	7/10/86	E1XCOOXM		0.817	uCi/gm	G	Sludge/Composite	Braun	Co60	4.84E+07	1.59E+07	
C105	Co60	5/8/87	C1XCXXXX	1.55	0.735	uCi/g	I	core	RAW	Co60	4.22E+07	1.55E+07	
C106	Co60	5/19/86					G	sludge	Wastren	Co60	4.50E+07	1.45E+07	
A102	Co60	1/5/88	92XCXXXX	1.66	0.59	uCi/g	I	core composite	RAW	Co60	3.62E+07	1.45E+07	
C105	Co60	4/11/86					G	sludge	Wastren	Co60	4.22E+07	1.34E+07	
C105	Co60	4/11/86	C1XCOOXX	1.55	0.735	uCi/gm	G	Sludge/Composite	Braun	Co60	4.22E+07	1.34E+07	
C105	Co60	4/11/86	C1XCOOXX	1.55	0.734	uCi/gm	G	Sludge/Composite	Braun	Co60	4.21E+07	1.34E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C104	Co60	12/18/75	T-769	1.16	15200	uCi/gal	D	suspended solids	RAW	Co60	1.49E+08	1.23E+07	
C106	Co60	5/1/87	3		560	uCi/kg	S		RAW	Co60	3.32E+07	1.21E+07	
A102	Co60	3/8/86	92XCOOXX	1.66	0.59	uCi/gm	G	Sludge/Composite	Braun	Co60	3.62E+07	1.14E+07	
A106	Co60	1/5/88	A1XCXXXX	1.56	0.472	uCi/g	I	Core composite	RAW	Co60	2.72E+07	1.09E+07	
C102	Co60	6/17/87			0.41461	uCi/g	G	acid/parr	RAW	Co60	2.45E+07	9.13E+06	
C104	Co60	8/23/77	9172-B		2400	uCi/l	G	Sludge	Braun	Co60	8.88E+07	9.13E+06	
C104	Co60	8/23/77	9172		2400	uCi/l	G	sludge	RAW	Co60	8.88E+07	9.13E+06	
C102	Co60	7/10/86	E1XCOOXX	1.351	0.527	uCi/gm	G	Sludge/Composite	Braun	Co60	2.63E+07	8.67E+06	
C102	Co60	12/1/86	RAT-C102-2		0.4146	uCi/gm	I	Composite	Braun	Co60	2.45E+07	8.51E+06	
C104	Co60	8/23/77	9172-A		2200	uCi/l	G	Sludge	Braun	Co60	8.14E+07	8.37E+06	
C104	Co60	8/23/77	9172		2200	uCi/l	G	sludge	RAW	Co60	8.14E+07	8.37E+06	
C104	Co60	4/15/86	D1XCOOXX	1.21	0.558	uCi/gm	G	Sludge/Composite	Braun	Co60	2.50E+07	7.97E+06	
BX105	Co60	1/5/88	81XCXXXX	1.58	0.259	uCi/g	I	Core composite	RAW	Co60	1.51E+07	6.06E+06	
SX106	Co60	4/18/78	8301	1.37	0.934	uCi/gm	S	Supernate/Solids	Braun	Co60	4.73E+07	5.30E+06	
SX106	Co60	4/18/78	8301	1.33	0.934	uCi/gm	S	Supernate/Solids	Braun	Co60	4.60E+07	5.15E+06	
SX106	Co60	4/18/78		1.33	0.934	uCi/g	S	Solids(Water Soluble)	RAW	Co60	4.60E+07	5.15E+06	
B201	Co60	8/1/91	B08F50	1.6	0.134	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.93E+06	5.07E+06	
S104	Co60	8/2/92			0.084	uCi/g	S		RAW	Co60	4.97E+06	3.62E+06	
S104	Co60	8/1/92	B08TF6	1.6	0.084	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.97E+06	3.62E+06	
TX118	Co60	5/29/75	T-4900	1.2	4820	uCi/gal	D	Suspended Solids	RAW	Co60	4.71E+07	3.61E+06	
B110	Co60	4/1/90		1.33	0.1211	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	5.96E+06	3.20E+06	
B110	Co60	4/1/90		1.21	0.1316	uCi/g	I		RAW	Co60	5.89E+06	3.16E+06	
S102	Co60	11/4/74	7562	1.4345	4540	uCi/gal	D	Suspended solid	RAW	Co60	4.44E+07	3.16E+06	
S104	Co60	8/2/92			0.07	uCi/g	S		RAW	Co60	4.14E+06	3.02E+06	
S104	Co60	8/1/92	B08TF7	1.6	0.07	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.14E+06	3.02E+06	
B110	Co60	8/9/89	89-1251-A-2	1.355	0.1211	uCi/g	I	core 2	RAW	Co60	6.07E+06	2.99E+06	
S104	Co60	8/2/92			0.063	uCi/g	S		RAW	Co60	3.73E+06	2.72E+06	
S104	Co60	8/1/92	B08TF6	1.6	0.063	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.73E+06	2.72E+06	
S104	Co60	8/2/92			0.0621	uCi/g	S		RAW	Co60	3.68E+06	2.68E+06	
S104	Co60	8/1/92	B08TF7	1.6	0.0621	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.68E+06	2.68E+06	
U105	Co60	10/6/77	968		550	uCi/l	S	Solids	Braun	Co60	2.04E+07	2.13E+06	
U105	Co60	10/6/77	968		550	uCi/l	S	Solids	RAW	Co60	2.04E+07	2.13E+06	
BX104	Co60	1/5/88	71XCXXXX	1.85	0.077	uCi/g	I	Core composite	RAW	Co60	5.27E+06	2.11E+06	
S104	Co60	8/2/92			0.0478	uCi/g	S		RAW	Co60	2.83E+06	2.06E+06	
S104	Co60	8/1/92	B08S46	1.6	0.0478	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.83E+06	2.06E+06	
S104	Co60	8/2/92			0.0455	uCi/g	S		RAW	Co60	2.69E+06	1.96E+06	
S104	Co60	8/1/92	B08S48	1.6	0.0455	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.69E+06	1.96E+06	
S104	Co60	8/2/92			0.0446	uCi/g	S		RAW	Co60	2.64E+06	1.92E+06	
S104	Co60	8/1/92	B08S46	1.6	0.0446	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.64E+06	1.92E+06	
S104	Co60	8/2/92			0.0442	uCi/g	S		RAW	Co60	2.62E+06	1.91E+06	
S104	Co60	8/1/92	B08S46	1.6	0.0442	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.62E+06	1.91E+06	
SX102	Co60	4/18/75		1.88	0.35	uCi/g	S	Solid	RAW	Co60	2.43E+07	1.84E+06	
SX102	Co60	4/18/75	RAT-SX102-1	1.88	655	uCi/l	S	Supernate/Solids	Braun	Co60	2.42E+07	1.83E+06	
SX102	Co60	4/18/75		1.88	655	uCi/L	S	Solid	RAW	Co60	2.42E+07	1.83E+06	
C110	Co60	4/23/92	B08VJ5	1.6	0.0433	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.56E+06	1.80E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C112	Co60	3/1/92	B08DM6	1.5	0.047	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.61E+06	1.80E+06	
C112	Co60	3/1/92	B08DM7	1.6	0.0431	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.55E+06	1.76E+06	
C110	Co60	4/23/92	B08W47	1.6	0.0416	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.46E+06	1.73E+06	
C110	Co60	4/23/92	B08VK1	1.6	0.0415	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.46E+06	1.73E+06	
T105	Co60	5/28/93	B08WT2	0.89	0.0634	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.09E+06	1.69E+06	
C110	Co60	4/23/92	B08VJ5	1.6	0.0401	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.37E+06	1.67E+06	
S104	Co60	8/2/92			0.0383	uCi/g	S		RAW	Co60	2.27E+06	1.65E+06	
C110	Co60	4/23/92	B08W47	1.6	0.0397	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.35E+06	1.65E+06	
S104	Co60	8/1/92	B08S46	1.6	0.0383	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.27E+06	1.65E+06	
C110	Co60	4/23/92	B08VK1	1.6	0.0396	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.34E+06	1.65E+06	
BX104	Co60	2/14/86	71XC00XX	1.85	0.077	uCi/gm	G	Sludge/Composite	Braun	Co60	5.27E+06	1.65E+06	
A103	Co60	2/24/87	B1XC00XX	1.34	0.0926	uCi/g	I	Core composite	RAW	Co60	4.59E+06	1.64E+06	
A103	Co60	3/3/87	B2XCXXXX	1.35	0.0878	uCi/g	I	Core composite	RAW	Co60	4.39E+06	1.57E+06	
BX104	Co60	1/5/88	72XCXXXX	1.76	0.06	uCi/g	I	Core composite	RAW	Co60	3.91E+06	1.56E+06	
B110	Co60	4/1/90		1.21	0.0646	uCi/g	I		RAW	Co60	2.89E+06	1.55E+06	
BX105	Co60	1/5/88	82XCXXXX	1.79	0.0561	uCi/g	I	Core composite	RAW	Co60	3.72E+06	1.49E+06	
S104	Co60	8/2/92			0.0344	uCi/g	S		RAW	Co60	2.04E+06	1.48E+06	
S104	Co60	8/1/92	B08TJ5	1.6	0.0344	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.04E+06	1.48E+06	
C103	Co60	5/1/75	T-4073	1.16	1990	uCi/gal	O	Other	RAW	Co60	1.95E+07	1.48E+06	
A103	Co60	3/26/86	B1XC00XX	1.34	0.0926	uCi/gm	G	Sludge/Composite	Braun	Co60	4.59E+06	1.45E+06	
S104	Co60	8/2/92			0.0333	uCi/g	S		RAW	Co60	1.97E+06	1.44E+06	
S104	Co60	8/1/92	B08TJ4	1.6	0.0333	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.97E+06	1.44E+06	
S104	Co60	8/2/92			0.0325	uCi/g	S		RAW	Co60	1.92E+06	1.40E+06	
S104	Co60	8/1/92	B08TJ4	1.6	0.0325	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.92E+06	1.40E+06	
A103	Co60	4/3/86	B2XC00XX	1.35	0.0878	uCi/gm	G	Sludge/Composite	Braun	Co60	4.39E+06	1.39E+06	
U110	Co60	7/3/74		1.5	550	uCi/L	S	Chunk, mud like	RAW	Co60	2.04E+07	1.39E+06	
T107	Co60	3/1/93	B08VD2	1.6	0.0296	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.75E+06	1.38E+06	
S104	Co60	8/2/92			0.0315	uCi/g	S		RAW	Co60	1.86E+06	1.36E+06	
S104	Co60	8/1/92	B08TJ5	1.6	0.0315	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.86E+06	1.36E+06	
C112	Co60	3/1/92	B08DM7	1.6	0.0327	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.94E+06	1.34E+06	
T105	Co60	5/28/93	B08WT4	1.745	0.0254	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.64E+06	1.33E+06	
T102	Co60	3/1/93	B08732	1.3166667	0.0346	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.69E+06	1.33E+06	
C112	Co60	3/1/92	B08DM6	1.5	0.0346	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.92E+06	1.32E+06	
T107	Co60	3/1/93	B08VD2	1.6	0.0284	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.68E+06	1.32E+06	
C110	Co60	4/23/92	B08VN6	1.6	0.031	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.84E+06	1.29E+06	
C109	Co60	9/1/92	B08T69	1.6	0.029	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.72E+06	1.26E+06	
T107	Co60	3/1/93	B08V43	1.15	0.0376	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.60E+06	1.26E+06	
C110	Co60	4/23/92	B08VN6	1.6	0.0301	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.78E+06	1.25E+06	
C110	Co60	4/23/92	B08VP9	1.6	0.03	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.78E+06	1.25E+06	
C112	Co60	3/1/92	B08DT4	1.6	0.0298	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.76E+06	1.22E+06	
A101	Co60	11/11/80	RAT-A101-8		202	uCi/l	R	Slurry	Braun	Co60	7.47E+06	1.17E+06	
T105	Co60	5/28/93	B08WT2	0.89	0.043	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.42E+06	1.15E+06	
C110	Co60	4/23/92	B08VP1	1.6	0.0276	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.63E+06	1.15E+06	
T105	Co60	5/28/93	B08WT4	1.745	0.0213	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.38E+06	1.12E+06	
T107	Co60	3/1/93	B08VD2	1.6	0.0239	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.41E+06	1.11E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
T102	Co60	3/1/93	B0B732	1.3166667	0.0288	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.40E+06	1.10E+06	
C109	Co60	9/1/92	B08T63	1.6	0.025	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.48E+06	1.09E+06	
C110	Co60	4/23/92	B08VP1	1.6	0.0261	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.55E+06	1.09E+06	
B202	Co60	6/7/91	B0BC05	1.6	0.0292	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.73E+06	1.08E+06	
T107	Co60	3/1/93	B08VD2	1.6	0.0225	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.33E+06	1.05E+06	
C109	Co60	9/1/92	B08T15	1.2	0.032	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.42E+06	1.05E+06	
C109	Co60	9/1/92	B08T69	1.6	0.024	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.42E+06	1.05E+06	
T102	Co60	3/1/93	B0B732	1.3166667	0.0268	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.31E+06	1.03E+06	
T107	Co60	3/1/93	B08VF0	1.3833333	0.0254	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.30E+06	1.02E+06	
T105	Co60	5/28/93	B08WT4	1.745	0.0195	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.26E+06	1.02E+06	
B202	Co60	6/7/91	B0BC05	1.6	0.0274	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.62E+06	1.02E+06	
C109	Co60	9/1/92	B08T63	1.6	0.023	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.36E+06	1.00E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
TY104	Co60	6/30/87	251S0000	1.66	0.0432	uCi/g	G	SLUDGE	RAW	Co60	2.65E+06	9.92E+05	
T107	Co60	3/1/93	B08VD9	1.305	0.0251	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.21E+06	9.53E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.0286	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.38E+06	9.49E+05	
A103	Co60	4/3/86					K	Saltcake	Wastren	Co60	2.87E+06	9.12E+05	
A103	Co60	4/3/86	B2XCOOXX	1.35	0.0574	uCi/gm	G	Sludge/Composite	Braun	Co60	2.87E+06	9.11E+05	
B110	Co60	8/9/89	89-1251-A-3	1.355	0.03634	uCi/g	I	core 2	RAW	Co60	1.82E+06	8.98E+05	
T107	Co60	3/1/93	B08VF0	1.3833333	0.022	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.13E+06	8.85E+05	
C109	Co60	9/1/92	B08T15	1.2	0.027	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.20E+06	8.83E+05	
B110	Co60	8/9/89	89-1252-A-3	1.355	0.03472	uCi/g	I	core 2	RAW	Co60	1.74E+06	8.58E+05	
T107	Co60	3/1/93	B08VF0	1.3833333	0.0213	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.09E+06	8.57E+05	
T107	Co60	3/1/93	B08V44	1.1	0.0264	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.07E+06	8.45E+05	
C110	Co60	4/23/92	B08VP9	1.6	0.02	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.18E+06	8.32E+05	
C110	Co60	4/23/92	B08VP9	1.6	0.02	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.18E+06	8.32E+05	
C110	Co60	4/23/92	B08VP9	1.6	0.02	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.18E+06	8.32E+05	
TY106	Co60	7/8/87	111C0000	1.31	0.0452	uCi/g	S	SOLID	RAW	Co60	2.19E+06	8.22E+05	
T107	Co60	3/1/93	B08VD9	1.305	0.0207	uCi/g	S	DUPLICATE RESULT	TCD	Co60	9.99E+05	7.86E+05	
TY104	Co60	8/14/85	251S0000	1.66	0.0432	uCi/gm	G	Sludge/Composite	Braun	Co60	2.65E+06	7.76E+05	
T107	Co60	3/1/93	B08VF0	1.3833333	0.019	uCi/g	S	DUPLICATE RESULT	TCD	Co60	9.72E+05	7.65E+05	
BY112	Co60	5/29/71			450	uCi/L	T	crust	RAW	Co60	1.67E+07	7.56E+05	
C109	Co60	9/1/92	B08T15	1.2	0.023	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.02E+06	7.52E+05	
C109	Co60	9/1/92	B08T15	1.2	0.023	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.02E+06	7.52E+05	
C109	Co60	9/1/92	B08T15	1.2	0.022	uCi/g	S	PRIMARY RESULT	TCD	Co60	9.77E+05	7.20E+05	
TY104	Co60	6/30/87	241S0000	1.77	0.0261	uCi/g	G	SLUDGE	RAW	Co60	1.71E+06	6.39E+05	
TY106	Co60	7/31/85	111C0000	1.31	0.0452	uCi/gm	G	Sludge/Composite	Braun	Co60	2.19E+06	6.37E+05	
SX102	Co60	3/18/76	RAT-SX102-3	1.829	0.11	uCi/gm	A	Salts	Braun	Co60	7.44E+06	6.34E+05	
T105	Co60	5/28/93	B08WT4	1.745	0.0119	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.68E+05	6.23E+05	
T102	Co60	3/1/93	B0B732	1.3166667	0.0162	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.89E+05	6.21E+05	
S104	Co60	8/2/92			0.0143	uCi/g	S		RAW	Co60	8.47E+05	6.17E+05	
S104	Co60	8/1/92	B08S48	1.6	0.0143	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.47E+05	6.17E+05	
S104	Co60	8/1/92	B08TL4	1.6	0.0143	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.47E+05	6.17E+05	
T105	Co60	5/28/93	B08WT4	1.745	0.0117	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.55E+05	6.13E+05	
C109	Co60	9/1/92	B08T16	1.3	0.017	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.18E+05	6.02E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S104	Co60	8/2/92			0.0138	uCi/g	S		RAW	Co60	8.17E+05	5.95E+05	
S104	Co60	8/1/92	B08TL4	1.6	0.0138	uCi/g	S	DUPLICATE RESULT	TCD	Co60	8.17E+05	5.95E+05	
S104	Co60	8/2/92			0.0137	uCi/g	S		RAW	Co60	8.11E+05	5.91E+05	
S104	Co60	8/1/92	B08TL3	1.6	0.0137	uCi/g	S	DUPLICATE RESULT	TCD	Co60	8.11E+05	5.91E+05	
S104	Co60	8/2/92			0.0135	uCi/g	S		RAW	Co60	7.99E+05	5.83E+05	
S104	Co60	8/1/92	B08TL3	1.6	0.0135	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.99E+05	5.82E+05	
B110	Co60	4/1/90		1.28	0.02283	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	1.08E+06	5.80E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.0173	uCi/g	S	DUPLICATE RESULT	TCD	Co60	8.32E+05	5.74E+05	
C109	Co60	9/1/92	B08T16	1.3	0.016	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.70E+05	5.67E+05	
B110	Co60	8/9/89	89-0729-A-2	1.355	0.02283	uCi/g	I	core 2	RAW	Co60	1.14E+06	5.64E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.0138	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.17E+05	5.63E+05	
S111	Co60	9/18/80					G	Sludge	Wastren	Co60	3.66E+06	5.63E+05	
S104	Co60	8/2/92			0.013	uCi/g	S		RAW	Co60	7.70E+05	5.61E+05	
S104	Co60	8/1/92	B08S48	1.6	0.013	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.70E+05	5.61E+05	
B201	Co60	8/1/91	B08F51	1.6	0.0147	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.70E+05	5.56E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.0133	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.87E+05	5.43E+05	
C109	Co60	9/1/92	B08T16	1.3	0.015	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.22E+05	5.32E+05	
A101	Co60	11/10/80	RAT-A101-6		91	uCi/l	R	Slurry	Braun	Co60	3.37E+06	5.28E+05	
A101	Co60	11/10/80	RAT-A101-4A	1.65	91	uCi/l	R	Slurry	Braun	Co60	3.37E+06	5.28E+05	
C109	Co60	9/1/92	B08T15	1.2	0.016	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.10E+05	5.23E+05	
S111	Co60	9/18/80	RAT-S111-5		0.0565	uCi/gm	S	Solids	Braun	Co60	3.34E+06	5.14E+05	
S111	Co60	12/16/74	T-8141	1.7953	712	uCi/gal	O		RAW	Co60	6.96E+06	5.03E+05	
S104	Co60	4/13/90					G	Sludge	Wastren	Co60	9.26E+05	4.99E+05	
TY104	Co60	8/8/85	241S0000	1.77	0.0261	uCi/gm	G	Sludge/Composite	Braun	Co60	1.71E+06	4.98E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.0122	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.22E+05	4.98E+05	
C109	Co60	9/1/92	B08T16	1.3	0.014	uCi/g	S	DUPLICATE RESULT	TCD	Co60	6.73E+05	4.96E+05	
T107	Co60	3/1/93	B08V39	1.57	0.0105	uCi/g	S	DUPLICATE RESULT	TCD	Co60	6.10E+05	4.80E+05	
T107	Co60	3/1/93	B08T22	1.2872727	0.0127	uCi/g	S	DUPLICATE RESULT	TCD	Co60	6.05E+05	4.76E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.0113	uCi/g	S	DUPLICATE RESULT	TCD	Co60	6.69E+05	4.61E+05	
B110	Co60	4/1/90		1.37	0.0162	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	8.21E+05	4.41E+05	
T107	Co60	3/1/93	B08T22	1.2872727	0.0114	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.43E+05	4.27E+05	
C109	Co60	9/1/92	B08T17	1.2	0.013	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.77E+05	4.25E+05	
C109	Co60	9/1/92	B08T17	1.2	0.013	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.77E+05	4.25E+05	
C110	Co60	4/23/92	B08VH6	1.6	0.01	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.92E+05	4.16E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.0101	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.98E+05	4.12E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00991	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.87E+05	4.05E+05	
TY104	Co60	6/30/87	232S0000	1.85	0.0155	uCi/g	G	SLUDGE	RAW	Co60	1.06E+06	3.97E+05	
C110	Co60	4/23/92	B08VH6	1.6	0.0089	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.27E+05	3.70E+05	
T105	Co60	5/28/93	B08WT2	0.89	0.0136	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.48E+05	3.63E+05	
T105	Co60	5/28/93	B08WT4	1.745	0.00688	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.44E+05	3.60E+05	
C109	Co60	9/1/92	B08T17	1.2	0.011	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.88E+05	3.60E+05	
C109	Co60	9/1/92	B08T17	1.2	0.011	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.88E+05	3.60E+05	
T105	Co60	5/28/93	B08WT2	0.89	0.0131	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.31E+05	3.50E+05	
T107	Co60	3/1/93	B08VR2	1.735	0.00687	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.41E+05	3.47E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00824	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.88E+05	3.36E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TY106	Co60	7/8/87	161C0000	1.43	0.0169	uCi/g	S	SOLID	RAW	Co60	8.94E+05	3.35E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00817	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.84E+05	3.34E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00796	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.71E+05	3.25E+05	
B201	Co60	8/1/91	B08F50	1.6	0.00859	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.09E+05	3.25E+05	
T107	Co60	3/1/93	B08V39	1.57	0.0071	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.12E+05	3.24E+05	
BX107	Co60	6/1/92	B08X71	1.6	0.0075	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.44E+05	3.17E+05	
C110	Co60	4/23/92	B08VH6	1.6	0.0076	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.50E+05	3.16E+05	
T107	Co60	3/1/93	B08VR2	1.735	0.00624	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.01E+05	3.15E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00767	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.54E+05	3.13E+05	
T107	Co60	3/1/93	B08VB9	1.19	0.009	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.96E+05	3.12E+05	
TY104	Co60	8/6/85	232S0000	1.85	0.0155	uCi/gm	G	Sludge/Composite	Braun	Co60	1.06E+06	3.09E+05	
S111	Co60	8/25/78	1001-C	1.27	0.056	uCi/gm	S	Solids	Braun	Co60	2.63E+06	3.09E+05	
S111	Co60	8/25/78	1001#C	1.27	0.056	uCi/g	A	Salt	RAW	Co60	2.63E+06	3.09E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00745	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.41E+05	3.04E+05	
T107	Co60	3/1/93	B08V43	1.15	0.00893	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.80E+05	2.99E+05	
S104	Co60	8/2/92			0.0069	uCi/g	S		RAW	Co60	4.08E+05	2.98E+05	
S104	Co60	8/1/92	B08S50	1.6	0.0069	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.08E+05	2.98E+05	
S104	Co60	8/2/92			0.00689	uCi/g	S		RAW	Co60	4.08E+05	2.97E+05	
S104	Co60	8/1/92	B08S50	1.6	0.00689	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.08E+05	2.97E+05	
T107	Co60	3/1/93	B08V43	1.15	0.00878	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.74E+05	2.94E+05	
BX107	Co60	6/1/92	B08X97	1.6	0.00683	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.04E+05	2.88E+05	
BX107	Co60	6/1/92	B08X70	1.6	0.00682	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.04E+05	2.88E+05	
C110	Co60	4/23/92	B08VH6	1.6	0.0069	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.08E+05	2.87E+05	
T107	Co60	3/1/93	B08V44	1.1	0.00892	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.63E+05	2.85E+05	
T107	Co60	3/1/93	B08V44	1.1	0.00889	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.62E+05	2.84E+05	
BX107	Co60	6/1/92	B08X98	1.6	0.00664	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.93E+05	2.80E+05	
BX107	Co60	6/1/92	B08X71	1.6	0.0066	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.91E+05	2.79E+05	
BX107	Co60	6/1/92	B08X98	1.6	0.00654	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.87E+05	2.76E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.0066	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.91E+05	2.69E+05	
T107	Co60	3/1/93	B08V43	1.15	0.008	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.40E+05	2.68E+05	
TY106	Co60	9/26/85	161C0000	1.43	0.0169	uCi/gm	G	Sludge/Composite	Braun	Co60	8.94E+05	2.66E+05	
TY106	Co60	9/26/85					G	Sludge	Wastren	Co60	8.94E+05	2.65E+05	
T107	Co60	3/1/93	B08VD8	1.42	0.00639	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.36E+05	2.64E+05	
T107	Co60	3/1/93	B08VD8	1.42	0.00639	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.36E+05	2.64E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.00792	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.81E+05	2.63E+05	
TY105	Co60	9/13/85	61XC0000		0.0147	uCi/gm	G	Sludge/Composite	Braun	Co60	8.70E+05	2.57E+05	
S104	Co60	8/2/92			0.00594	uCi/g	S		RAW	Co60	3.52E+05	2.56E+05	
S104	Co60	8/1/92	B08S50	1.6	0.00594	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.52E+05	2.56E+05	
S104	Co60	8/2/92			0.0059	uCi/g	S		RAW	Co60	3.49E+05	2.55E+05	
S104	Co60	8/1/92	B08S50	1.6	0.0059	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.49E+05	2.55E+05	
BX107	Co60	6/1/92	B08X70	1.6	0.00598	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.54E+05	2.52E+05	
T107	Co60	3/1/93	B08V44	1.1	0.00772	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.14E+05	2.47E+05	
TY105	Co60	9/13/85	61XC0000	1.53	0.0147	uCi/gm	G	Sludge/Composite	Braun	Co60	8.32E+05	2.46E+05	
TY105	Co60	9/13/85					G	Sludge	Wastren	Co60	8.32E+05	2.46E+05	
T107	Co60	3/1/93	B08VB9	1.19	0.007	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.08E+05	2.42E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TY105	Co60	8/1/85	61XC00XX	1.53	0.0147	uCi/g	I	Core Composite	RAW	Co60	8.32E+05	2.42E+05	
BX107	Co60	6/1/92	B08X97	1.6	0.00573	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.39E+05	2.42E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00588	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.48E+05	2.40E+05	
B110	Co60	4/1/90		1.37	0.00859	uCi/g	I	PRIMARY	B110 - Core Data	Co60	4.35E+05	2.34E+05	
T107	Co60	3/1/93	B08VB9	1.19	0.00658	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.90E+05	2.28E+05	
TY101	Co60	7/8/87		1.64	0.00997	uCi/g	S	CREAMY	RAW	Co60	6.05E+05	2.27E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00535	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.17E+05	2.18E+05	
B201	Co60	8/1/91	B08F17	1.2	0.00742	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.29E+05	2.11E+05	
B111	Co60	10/1/91	B08XC0	1.6	0.005	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.96E+05	1.93E+05	
B111	Co60	10/1/91	B08XC1	1.6	0.005	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.96E+05	1.93E+05	
B111	Co60	10/1/91	B08XC0	1.6	0.005	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.96E+05	1.93E+05	
B111	Co60	10/1/91	B08XC1	1.6	0.005	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.96E+05	1.93E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00468	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.77E+05	1.91E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00465	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.75E+05	1.90E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00439	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.60E+05	1.79E+05	
TY101	Co60	9/11/85					G	Sludge	Wastren	Co60	6.05E+05	1.79E+05	
TY101	Co60	9/11/85	51XC0000	1.64	0.00997	uCi/gm	G	Sludge/Composite	Braun	Co60	6.05E+05	1.79E+05	
C112	Co60	3/1/92	B08DT4	1.6	0.00435	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.58E+05	1.78E+05	
T107	Co60	3/1/93	B08VB9	1.19	0.00496	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.18E+05	1.72E+05	
BX107	Co60	6/1/92	B08SD6	0.9956	0.0065	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.39E+05	1.71E+05	
C112	Co60	3/1/92	B08DT4	1.6	0.00417	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.47E+05	1.70E+05	
S104	Co60	8/2/92			0.00394	uCi/g	S		RAW	Co60	2.33E+05	1.70E+05	
S104	Co60	8/1/92	B08S48	1.6	0.00394	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.33E+05	1.70E+05	
T107	Co60	3/1/93	B08T23	0.95	0.00594	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.09E+05	1.64E+05	
B110	Co60	8/9/89	89-0728-A-3	1.355	0.00661	uCi/g	I	core 2	RAW	Co60	3.31E+05	1.63E+05	
BX107	Co60	6/1/92	B08SD6	0.9956	0.0061	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.25E+05	1.60E+05	
C112	Co60	3/1/92	B08DM6	1.5	0.00415	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.30E+05	1.59E+05	
BX107	Co60	6/1/92	B08SD6	0.9956	0.0058	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.14E+05	1.52E+05	
S107	Co60	11/6/73	T-178	1.14	65.44	uCi/l	I	Composite	Braun	Co60	2.42E+06	1.51E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00366	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.17E+05	1.49E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00364	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.15E+05	1.49E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00358	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.12E+05	1.46E+05	
B110	Co60	4/1/90		1.36	0.00536	uCi/g	I	PRIMARY	B110 - Core Data	Co60	2.70E+05	1.45E+05	
B110	Co60	8/9/89	89-0465-A-2	1.355	0.00585	uCi/g	I	core 2	RAW	Co60	2.93E+05	1.45E+05	
B110	Co60	4/1/90		1.24	0.00585	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	2.68E+05	1.44E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00351	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.08E+05	1.43E+05	
TY106	Co60	9/4/85		1.31	0.01	uCi/g	I	Core Composite	RAW	Co60	4.85E+05	1.43E+05	
T111	Co60	8/7/92	J-398	0.88	0.006	uCi/gm	G	Sludge	Braun	Co60	1.95E+05	1.43E+05	
T107	Co60	3/1/93	B08T23	0.95	0.00515	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.81E+05	1.42E+05	
BX107	Co60	6/1/92	B08SD6	0.9956	0.0054	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.99E+05	1.42E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00347	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.05E+05	1.42E+05	
C112	Co60	3/1/92	B08DM6	1.5	0.0037	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.05E+05	1.42E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00343	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.03E+05	1.40E+05	
TY106	Co60	9/4/85		1.27	0.01	uCi/g	I	Core Composite	RAW	Co60	4.70E+05	1.38E+05	
C112	Co60	3/1/92	B08DY1	2	0.00271	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.01E+05	1.38E+05	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Co60	8/9/89	89-0465-A-1	1.355	0.00557	uCi/g	I	core 2	RAW	Co60	2.79E+05	1.38E+05	
B110	Co60	4/1/90		1.24	0.00557	uCi/g	I	PRIMARY	B110 - Core Data	Co60	2.56E+05	1.37E+05	
T111	Co60	11/1/91	B08ST5	0.88	0.00632	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.06E+05	1.36E+05	
C112	Co60	3/1/92	B08DY1	2	0.00265	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.96E+05	1.35E+05	
TY106	Co60	9/4/85		1.34	0.009	uCi/g	I	Core Composite	RAW	Co60	4.46E+05	1.31E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00319	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.89E+05	1.30E+05	
C112	Co60	3/1/92	B08DM7	1.6	0.00317	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.88E+05	1.29E+05	
T111	Co60	11/1/91	B08ST5	0.88	0.00586	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.91E+05	1.26E+05	
B110	Co60	8/9/89	890727-A-3	1.355	0.00492	uCi/g	I	core 2	RAW	Co60	2.47E+05	1.22E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.00358	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.72E+05	1.19E+05	
B201	Co60	8/1/91	B08F17	1.2	0.00416	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.85E+05	1.18E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.00354	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.70E+05	1.17E+05	
TY104	Co60	6/30/87	261S0000	1.48	0.00573	uCi/g	G	SLUDGE	RAW	Co60	3.14E+05	1.17E+05	
S107	Co60	11/17/73		1.1592	50.05	uCi/L	O		RAW	Co60	1.85E+06	1.16E+05	
B111	Co60	10/1/91	B08XC3	1.6	0.003	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.78E+05	1.16E+05	
B111	Co60	10/1/91	B08XC2	1.6	0.003	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.78E+05	1.16E+05	
B111	Co60	10/1/91	B08XC3	1.6	0.003	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.78E+05	1.16E+05	
T111	Co60	11/1/91	B08ST5	0.88	0.00516	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.68E+05	1.11E+05	
B201	Co60	8/1/91	B08F50	1.6	0.00292	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.73E+05	1.10E+05	
T111	Co60	11/1/91	B08ST5	0.88	0.00513	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.67E+05	1.10E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.00332	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.60E+05	1.10E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00269	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.59E+05	1.10E+05	
TY103	Co60	6/30/87	32XC00XX	1.7	0.00467	uCi/g	I	Core Composite	RAW	Co60	2.94E+05	1.10E+05	
C112	Co60	3/1/92	B08DN6	1.3	0.00327	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.57E+05	1.08E+05	
C112	Co60	3/1/92	B08DN8	1.6	0.00242	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.43E+05	9.88E+04	
C112	Co60	3/1/92	B08DN8	1.6	0.00236	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.40E+05	9.64E+04	
C112	Co60	3/1/92	B08DN8	1.6	0.00234	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.39E+05	9.55E+04	
TY104	Co60	8/16/85					G	Sludge	Wastren	Co60	3.14E+05	9.19E+04	
TY104	Co60	8/16/85	261S0000	1.48	0.00573	uCi/gm	G	Sludge/Composite	Braun	Co60	3.14E+05	9.18E+04	
B110	Co60	8/9/89	89-0466-A-1	1.355	0.00365	uCi/g	I	core 2	RAW	Co60	1.83E+05	9.03E+04	
B110	Co60	4/1/90		1.36	0.00334	uCi/g	I		RAW	Co60	1.68E+05	9.02E+04	
TY103	Co60	6/30/87	31XC00XX	1.7	0.00369	uCi/g	I	Core Composite	RAW	Co60	2.32E+05	8.68E+04	
TY103	Co60	8/21/85	32XC0000	1.7	0.00467	uCi/gm	G	Sludge/Composite	Braun	Co60	2.94E+05	8.61E+04	
B110	Co60	8/9/89	90-0638-A-3	1.355	0.00344	uCi/g	I	core 2	RAW	Co60	1.72E+05	8.50E+04	
B110	Co60	8/9/89	89-1252-A-1	1.355	0.00333	uCi/g	I	core 2	RAW	Co60	1.67E+05	8.23E+04	
B110	Co60	4/1/90		1.36	0.00299	uCi/g	I	PRIMARY	B110 - Core Data	Co60	1.50E+05	8.06E+04	
B201	Co60	8/1/91	B08F21	1.3	0.00256	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.23E+05	7.87E+04	
B110	Co60	4/1/90		1.3	0.00305	uCi/g	I		RAW	Co60	1.47E+05	7.86E+04	
B111	Co60	10/1/91	B08XC2	1.6	0.002	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.18E+05	7.73E+04	
B201	Co60	8/1/91	B08F17	1.2	0.00271	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.20E+05	7.69E+04	
B110	Co60	8/9/89	90-0636-A-3	1.355	0.00307	uCi/g	I	core 2	RAW	Co60	1.54E+05	7.58E+04	
T107	Co60	3/1/93	B08VB9	1.19	0.00208	uCi/g	S	DUPLICATE RESULT	TCD	Co60	9.16E+04	7.20E+04	
B201	Co60	8/1/91	B08RP3	1.2	0.00252	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.12E+05	7.15E+04	
B110	Co60	4/1/90		1.17	0.00305	uCi/g	I		RAW	Co60	1.32E+05	7.08E+04	
C112	Co60	3/1/92	B08DN8	1.6	0.00173	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.02E+05	7.06E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Co60	4/1/90		1.36	0.00261	uCi/g	I		RAW	Co60	1.31E+05	7.05E+04	
T107	Co60	3/1/93	B08VB9	1.19	0.00199	uCi/g	S	PRIMARY RESULT	TCD	Co60	8.76E+04	6.89E+04	
B201	Co60	8/1/91	B08F17	1.2	0.00242	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.07E+05	6.87E+04	
TY103	Co60	8/21/85	31XC0000	1.7	0.00369	uCi/gm	G	Sludge/Composite	Braun	Co60	2.32E+05	6.80E+04	
TY103	Co60	8/21/85					G	Sludge	Wastren	Co60	2.32E+05	6.80E+04	
T107	Co60	3/1/93	B08VD2	1.6	0.00145	uCi/g	S	DUPLICATE RESULT	TCD	Co60	8.58E+04	6.75E+04	
BY112	Co60	5/29/71			40	uCi/L	G	sludge	RAW	Co60	1.48E+06	6.72E+04	
B201	Co60	8/1/91	B08RP3	1.2	0.00235	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.04E+05	6.67E+04	
B110	Co60	4/1/90		1.28	0.00251	uCi/g	I	PRIMARY	B110 - Core Data	Co60	1.19E+05	6.39E+04	
B110	Co60	8/9/89	90-0638-A-1	1.355	0.00251	uCi/g	I	core 2	RAW	Co60	1.26E+05	6.22E+04	
B110	Co60	4/1/90		1.23	0.00236	uCi/g	I		RAW	Co60	1.07E+05	5.76E+04	
T107	Co60	3/1/93	B08VD2	1.6	0.0012	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.10E+04	5.59E+04	
TY102	Co60	6/19/87		1.88	0.00215	uCi/g	S	SOLID	RAW	Co60	1.50E+05	5.57E+04	
B110	Co60	4/1/90		1.28	0.00213	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	1.01E+05	5.41E+04	
B110	Co60	8/9/89	90-0638-A-2	1.355	0.00213	uCi/g	I	core 2	RAW	Co60	1.07E+05	5.26E+04	
C109	Co60	9/1/92	B08T17	1.2	0.0016	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.10E+04	5.23E+04	
B110	Co60	8/9/89	89-0466-A-3	1.355	0.00196	uCi/g	I	core 2	RAW	Co60	9.82E+04	4.84E+04	
B110	Co60	4/1/90		1.17	0.00208	uCi/g	I		RAW	Co60	9.00E+04	4.83E+04	
C109	Co60	9/1/92	B08T69	1.6	0.0011	uCi/g	S	DUPLICATE RESULT	TCD	Co60	6.51E+04	4.80E+04	
B201	Co60	8/1/91	B08F21	1.3	0.0015	uCi/g	S	PRIMARY RESULT	TCD	Co60	7.22E+04	4.61E+04	
B110	Co60	4/1/90		1.3	0.00175	uCi/g	I		RAW	Co60	8.42E+04	4.52E+04	
B201	Co60	8/1/91	B08F21	1.3	0.00146	uCi/g	S	DUPLICATE RESULT	TCD	Co60	7.02E+04	4.49E+04	
TY102	Co60	9/9/85					K	Saltcake	Wastren	Co60	1.50E+05	4.43E+04	
TY102	Co60	9/9/85	41XC0000	1.88	0.00215	uCi/gm	G	Sludge/Composite	Braun	Co60	1.50E+05	4.41E+04	
BX107	Co60	6/1/92	B08SF0	1.3264	0.00126	uCi/g	S	PRIMARY RESULT	TCD	Co60	6.18E+04	4.41E+04	
BX107	Co60	6/1/92	B08SF0	1.3264	0.0012	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.89E+04	4.20E+04	
C109	Co60	9/1/92	B08T69	1.6	0.00095	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.64E+04	4.16E+04	
B110	Co60	8/9/89	90-0636-A-2	1.355	0.00161	uCi/g	I	core 2	RAW	Co60	8.09E+04	3.99E+04	
B110	Co60	4/1/90		1.3	0.00141	uCi/g	I		RAW	Co60	6.79E+04	3.64E+04	
B201	Co60	8/1/91	B08F50	1.6	0.00096	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.68E+04	3.63E+04	
B201	Co60	8/1/91	B08F21	1.3	0.00116	uCi/g	S	DUPLICATE RESULT	TCD	Co60	5.58E+04	3.57E+04	
BX107	Co60	6/1/92	B08SF0	1.3264	0.001	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.91E+04	3.50E+04	
B110	Co60	4/1/90		1.36	0.00129	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	6.50E+04	3.49E+04	
B110	Co60	4/1/90		1.23	0.0014	uCi/g	I		RAW	Co60	6.37E+04	3.42E+04	
B110	Co60	8/9/89	89-0465-A-3	1.355	0.00136	uCi/g	I	core 2	RAW	Co60	6.84E+04	3.37E+04	
BX107	Co60	6/1/92	B08SF0	1.3264	0.00094	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.61E+04	3.29E+04	
T102	Co60	3/1/93	B08732	1.3166667	0.00085	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.15E+04	3.26E+04	
C109	Co60	9/1/92	B08T63	1.6	0.00073	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.30E+04	3.17E+04	
C106	Co60	8/1/88	2		1.15	uCi/kg	O		RAW	Co60	6.81E+04	2.94E+04	
C106	Co60	7/22/88			1.15	uCi/Kg	O		RAW	Co60	6.81E+04	2.93E+04	
C109	Co60	9/1/92	B08T63	1.6	0.00065	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.83E+04	2.82E+04	
B110	Co60	4/1/90		1.24	0.0011	uCi/g	I		RAW	Co60	5.07E+04	2.72E+04	
B201	Co60	8/1/91	B08F50	1.6	0.00069	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.08E+04	2.61E+04	
B201	Co60	8/1/91	B08F51	1.6	0.00066	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.91E+04	2.50E+04	
B201	Co60	8/1/91	B08F50	1.6	0.00066	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.91E+04	2.50E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
 ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Co60	4/1/90		1.3	0.0009	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	4.32E+04	2.32E+04	
TY103	Co60	8/21/85	31XC0000	1.7	0.00119	uCi/gm	G	Sludge/Composite	Braun	Co60	7.49E+04	2.19E+04	
B110	Co60	4/1/90		1.3	0.00084	uCi/g	I	PRIMARY	B110 - Core Data	Co60	4.03E+04	2.16E+04	
B201	Co60	8/1/91	B08F51	1.6	0.00056	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.32E+04	2.12E+04	
T104	Co60	8/26/92	B08S09	1.13	0.00066	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.74E+04	2.02E+04	
B110	Co60	8/9/89	89-0730-A-3	1.355	0.0008	uCi/g	I	core 2	RAW	Co60	4.02E+04	1.98E+04	
T104	Co60	8/26/92	B08S09	1.13	0.0006	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.50E+04	1.84E+04	
T104	Co60	8/26/92	B08S09	1.13	0.00058	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.42E+04	1.78E+04	
T102	Co60	3/1/93	B08732	1.3166667	0.00046	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.24E+04	1.76E+04	
B202	Co60	12/31/91					G	Sludge	Wastren	Co60	2.49E+04	1.68E+04	
TY103	Co60	8/21/85	32XC0000	1.7	0.0009	uCi/gm	G	Sludge/Composite	Braun	Co60	5.66E+04	1.66E+04	
T111	Co60	11/1/91	B08WR1	1.6	0.00042	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.49E+04	1.65E+04	
T104	Co60	8/26/92	B08S09	1.13	0.00052	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.17E+04	1.60E+04	
B201	Co60	8/1/91	B08F51	1.6	0.00042	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.49E+04	1.59E+04	
T111	Co60	11/1/91	B08SV7	1.09	0.00058	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.34E+04	1.54E+04	
T111	Co60	11/1/91	B08WR2	1.6	0.00039	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.28E+04	1.51E+04	
T111	Co60	11/1/91	B08WR2	1.6	0.00038	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.22E+04	1.47E+04	
T111	Co60	11/1/91	B08ST7	0.93	0.00064	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.20E+04	1.45E+04	
T111	Co60	11/1/91	B08WZ0	1.6	0.00037	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.19E+04	1.45E+04	
B110	Co60	8/9/89	89-0729-A-3	1.355	0.00058	uCi/g	I	core 2	RAW	Co60	2.92E+04	1.44E+04	
B202	Co60	6/7/91	B0BC11	1.6	0.00039	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.28E+04	1.43E+04	
B202	Co60	6/7/91	B0BC04	1.6	0.00037	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.19E+04	1.37E+04	
T111	Co60	11/1/91	B08WZ0	1.6	0.00035	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.04E+04	1.35E+04	
T111	Co60	11/1/91	B08WZ1	1.6	0.00035	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.04E+04	1.35E+04	
B202	Co60	6/7/91	B0BC04	1.6	0.00036	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.13E+04	1.34E+04	
T111	Co60	11/1/91	B08WR1	1.6	0.00034	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.01E+04	1.33E+04	
T104	Co60	8/26/92	B08TC0	1.6	0.0003	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.78E+04	1.31E+04	
B110	Co60	4/1/90		1.36	0.00048	uCi/g	I	PRIMARY	B110 - Core Data	Co60	2.42E+04	1.30E+04	
T111	Co60	11/1/91	B08WZ1	1.6	0.00033	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.95E+04	1.29E+04	
T104	Co60	8/26/92	B08TT8	1.6	0.0003	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.75E+04	1.28E+04	
B202	Co60	6/7/91	B0BC11	1.6	0.00034	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.01E+04	1.26E+04	
T104	Co60	8/26/92	B08TT7	1.6	0.00028	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.66E+04	1.22E+04	
C102	Co60	1/21/88	E1XCOOXM		0.817	uCi/L	I	Composite	RAW	Co60	3.02E+04	1.22E+04	
T111	Co60	11/1/91	B08SV7	1.09	0.00044	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.79E+04	1.18E+04	
T104	Co60	8/26/92	B08TT8	1.6	0.00025	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.46E+04	1.08E+04	
B110	Co60	4/1/90		1.36	0.00039	uCi/g	I	DUPLICATE	B110 - Core Data	Co60	1.98E+04	1.06E+04	
T104	Co60	8/26/92	B08TC0	1.6	0.00024	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.44E+04	1.06E+04	
T111	Co60	11/1/91	B08ST7	0.93	0.00046	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.58E+04	1.05E+04	
T111	Co60	11/1/91	B08ST7	0.93	0.00044	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.51E+04	1.00E+04	
T104	Co60	8/26/92	B08TT7	1.6	0.00023	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.36E+04	9.97E+03	
T104	Co60	8/26/92	B08TB9	1.6	0.00023	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.34E+04	9.88E+03	
T104	Co60	8/26/92	B08TB9	1.6	0.00022	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.31E+04	9.66E+03	
T111	Co60	11/1/91	B08SV7	1.09	0.00036	uCi/g	S	DUPLICATE RESULT	TCD	Co60	1.45E+04	9.59E+03	
C102	Co60	1/21/88	E1XCOOXX		0.527	uCi/L	I	Composite	RAW	Co60	1.95E+04	7.85E+03	
T111	Co60	11/1/91	B08ST9	1.11	0.00011	uCi/g	S	DUPLICATE RESULT	TCD	Co60	4.52E+03	2.98E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cobalt 60 Single-Shell Tank Solids [Sketch ES-VAL-CR06]
ASA Value: 5.26E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
T111	Co60	11/1/91	B08ST9	1.11	9.5E-05	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.90E+03	2.58E+03	
T111	Co60	11/1/91	B08SX5	1.06	9.8E-05	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.84E+03	2.54E+03	
T111	Co60	11/1/91	B08ST9	1.11	9.1E-05	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.74E+03	2.47E+03	
T111	Co60	8/7/92	J-408	1.09	8.3E-05	uCi/gm	G	Sludge	Braun	Co60	3.35E+03	2.44E+03	
T111	Co60	11/1/91	B08SQ9	1.13	8.7E-05	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.65E+03	2.41E+03	
T111	Co60	11/1/91	B08SX5	1.06	8.9E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.51E+03	2.32E+03	
T111	Co60	11/1/91	B08ST9	1.11	8.4E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.45E+03	2.28E+03	
T111	Co60	11/1/91	B08SV7	1.09	8.3E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.35E+03	2.21E+03	
T111	Co60	11/1/91	B08SQ9	1.13	7.6E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.19E+03	2.11E+03	
T111	Co60	11/1/91	B08SX5	1.06	8.1E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	3.16E+03	2.09E+03	
T111	Co60	11/1/91	B08SX5	1.06	8E-05	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.13E+03	2.06E+03	
T111	Co60	11/1/91	B08ST7	0.93	7.3E-05	uCi/g	S	DUPLICATE RESULT	TCD	Co60	2.51E+03	1.66E+03	
U107	Co60	12/9/75					G	Sludge	Wastren	Co60	1.82E+03	1.50E+02	
U107	Co60	12/9/74	RAT-U107-1	1.14	0.0491	uCi/l	G	Sludge	Braun	Co60	1.82E+03	1.31E+02	
U107	Co60	12/9/74		1.14	0.0491	uCi/gal	S	crystal are coarse	RAW	Co60	4.80E+02	3.46E+01	
U104	Co60	3/14/61					G	Sludge	Wastren	Co60	9.77E+01	1.16E+00	
A102	Co60	3/8/86	92XCOOXX	1.66	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY101	Co60	9/11/85	51XC0000	1.64	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY102	Co60	9/9/85	41XC0000	1.88	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY104	Co60	8/6/85	241S0000	1.77	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY104	Co60	8/6/85	232S0000	1.85	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY104	Co60	8/14/85	251S0000	1.66	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY104	Co60	8/16/85	261S0000	1.48	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY105	Co60	9/13/85	61XC0000	1.53	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY105	Co60	9/13/85	61XC0000		0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY106	Co60	7/31/85	111C0000	1.31	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	
TY106	Co60	9/26/85	161C0000	1.43	0	uCi/gm	G	Sludge/Composite	Braun	Co60	0.00E+00	0.00E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SX101	Cs137	4/26/89					L	Drainable Liquid	Wastren	Cs137	1.05E+15	9.21E+14	6
C106	Cs137	4/1/90	RAT-C106-4B		493	ugm/gm	U	Unknown	Braun	Cs137	1.75E+12	1.56E+12	2
C105	Cs137	4/1/90	RAT-C105-4B		335	ugm/gm	U	Unknown	Braun	Cs137	1.19E+12	1.06E+12	2
C101	Cs137						L		TRAC	Cs137	2.84E+11	2.06E+11	4
A105	Cs137	5/1/65	RAT-A105-3		30.7	Ci/gal	P	Supernate	Braun	Cs137	3.00E+11	1.52E+11	11
A105	Cs137	5/1/65			8.1	Ci/L	P	supernatant	RAW	Cs137	3.00E+11	1.51E+11	11
B108	Cs137						L		TRAC	Cs137	1.18E+11	8.54E+10	4
S109	Cs137	11/19/74	T-8121	1.6717	3E+06	uCi/L	O		RAW	Cs137	1.06E+11	6.66E+10	11
AX103	Cs137	10/14/74	RAT-AX103-2	1.157	2E+06	uCi/l	P	Supernate	Braun	Cs137	7.99E+10	5.02E+10	9
AX103	Cs137	10/14/74		1.157	2E+06	uCi/L	P	Supernatant	RAW	Cs137	7.99E+10	5.02E+10	9
C105	Cs137	11/10/72	RAT-C105-2		2E+06	uCi/l	P	Supernate	Braun	Cs137	7.96E+10	4.78E+10	11
TX105	Cs137	3/17/76	T-6311		2E+06	uCi/L	L	no solids	RAW	Cs137	6.66E+10	4.32E+10	10
TX118	Cs137	3/25/74	T-2780	1.43	6E+06	uCi/gal	P	Supernate	Braun	Cs137	5.99E+10	3.71E+10	7
TX118	Cs137	3/25/74	T-2780	1.43	6E+06	uCi/gal	L	no visable solids	RAW	Cs137	5.99E+10	3.71E+10	7
S102	Cs137	12/4/74	T-8416	1.4327	6E+06	uCi/gal	P	Supernate	Braun	Cs137	5.70E+10	3.59E+10	11
S102	Cs137	12/4/74	T-8416	1.4327	6E+06	uCi/gal	O		RAW	Cs137	5.70E+10	3.59E+10	11
S102	Cs137	12/4/74	8416	1.4327	6E+06	uCi/gal	O		RAW	Cs137	5.50E+10	3.47E+10	11
TX105	Cs137	1/21/74	T-805		2E+06	uCi/l	P	Supernate	Braun	Cs137	5.55E+10	3.43E+10	10
TX105	Cs137	1/21/74	T-805		2E+06	uCi/L	U		RAW	Cs137	5.55E+10	3.43E+10	10
AX103	Cs137	4/5/75	T-3363	1.157	5E+06	uCi/gal	P	Supernate	Braun	Cs137	5.33E+10	3.38E+10	9
BX110	Cs137						L		TRAC	Cs137	3.18E+10	2.30E+10	4
ASA Value: 2.3E+10 Bq/L													
A102	Cs137	3/14/89					P	Supernate	Wastren	Cs137	2.58E+10	2.26E+10	*
A102	Cs137	3/15/89		1.57	696000	uCi/L	P	Supernatant	RAW	Cs137	2.58E+10	2.25E+10	*
A102	Cs137	3/14/89	R-4656	1.57	696000	uCi/l	P	Supernate	Braun	Cs137	2.58E+10	2.25E+10	*
S102	Cs137	9/19/75	T-4963	1.4	3E+06	uCi/gal	L	solids unknown	RAW	Cs137	3.35E+10	2.15E+10	
S102	Cs137	6/2/75	T-4963	1.4	3E+06	uCi/gal	P	Supernate	Braun	Cs137	3.35E+10	2.14E+10	
U103	Cs137	12/10/77	3432	1.454	3E+06	uCi/gal	P	Supernate	Braun	Cs137	3.11E+10	2.10E+10	
U103	Cs137	12/10/77	3432	1.454	3E+06	uCi/gal	O		RAW	Cs137	3.11E+10	2.10E+10	
S110	Cs137						L		TRAC	Cs137	2.88E+10	2.09E+10	
A101	Cs137	8/22/80	T-2692	1.3017	775000	uCi/l	P	Supernate	Braun	Cs137	2.87E+10	2.06E+10	
S111	Cs137						L		TRAC	Cs137	2.84E+10	2.06E+10	
A101	Cs137	11/10/80	RAT-A101-4B	1.47	769000	uCi/l	F	Filtrate	Braun	Cs137	2.85E+10	2.05E+10	
A101	Cs137	11/10/80		1.47	769000	uCi/L	F	filtrate - 4 ft. sample	RAW	Cs137	2.85E+10	2.05E+10	
S102	Cs137	5/27/75	T-4823	1.34	3E+06	uCi/gal	P	Supernate	Braun	Cs137	3.19E+10	2.03E+10	
S102	Cs137	5/27/75	T-4823	1.34	3E+06	uCi/gal	L	nondeterminable solids	RAW	Cs137	3.19E+10	2.03E+10	
S102	Cs137	10/21/75	T-9049	1.48	3E+06	uCi/gal	P	Supernate	Braun	Cs137	3.12E+10	2.00E+10	
TX109	Cs137						L		TRAC	Cs137	2.69E+10	1.95E+10	
BX111	Cs137						L		TRAC	Cs137	2.53E+10	1.83E+10	
S102	Cs137	8/17/75	T-3639	1.32	3E+06	uCi/gal	O		RAW	Cs137	2.85E+10	1.83E+10	
S102	Cs137	4/17/75	T-3639	1.32	3E+06	uCi/gal	P	Supernate	Braun	Cs137	2.85E+10	1.81E+10	
S102	Cs137	4/17/75	3639	1.32	3E+06	uCi/gal	O		RAW	Cs137	2.85E+10	1.81E+10	
TX101	Cs137	7/24/75	T-8426	1.168	765000	uCi/L	L	no solids	RAW	Cs137	2.83E+10	1.81E+10	
S102	Cs137	6/20/75	T-5514	1.5202	3E+06	uCi/gal	P	Supernate	Braun	Cs137	2.81E+10	1.80E+10	
AX101	Cs137	11/11/80	RAT-AX101-2	1.36	0.66	Ci/l	P	Supernate	Braun	Cs137	2.44E+10	1.76E+10	
S109	Cs137	11/19/74	T-8121	1.6717	3E+06	uCi/gal	P	Supernate	Braun	Cs137	2.80E+10	1.76E+10	
A105	Cs137						L		TRAC	Cs137	2.43E+10	1.76E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AX101	Cs137	11/11/80	RAT-AX101-3	1.391	0.656	Ci/l	P	Supernate	Braun	Cs137	2.43E+10	1.75E+10	
S111	Cs137	8/25/78	RAT-S111-3	1.5	682000	uCi/l	P	Supernate	Braun	Cs137	2.52E+10	1.73E+10	
S111	Cs137	8/25/78		1.5	682000	uCi/L	P	Sup	RAW	Cs137	2.52E+10	1.73E+10	
BY109	Cs137						L		TRAC	Cs137	2.39E+10	1.73E+10	
SX105	Cs137	11/19/74	T-7327	1.3444	742000	uCi/L	L	LIQUID	RAW	Cs137	2.75E+10	1.73E+10	
SX101	Cs137	12/4/78	4523	1.52	668000	uCi/l	P	Supernate	Braun	Cs137	2.47E+10	1.71E+10	
SX101	Cs137	12/4/78	4523	1.76	668000	uCi/l	P	Supernate	Braun	Cs137	2.47E+10	1.71E+10	
SX101	Cs137	12/4/78	4523	1.76	668000	uCi/l	L	liquid	RAW	Cs137	2.47E+10	1.71E+10	
TX108	Cs137						L		TRAC	Cs137	2.35E+10	1.70E+10	
A102	Cs137	12/23/80	RAT-A102-2	1.452	631000	uCi/l	F	Filtrate	Braun	Cs137	2.33E+10	1.69E+10	
A102	Cs137	12/23/80		1.452	631000	uCi/L	O	30% crystals	RAW	Cs137	2.33E+10	1.69E+10	
S102	Cs137	10/20/75	1091	1.58	3E+06	uCi/gal	L	No solids	RAW	Cs137	2.63E+10	1.69E+10	
A102	Cs137	12/23/80	RAT-A102-1	1.44	630000	uCi/l	F	Filtrate	Braun	Cs137	2.33E+10	1.69E+10	
A102	Cs137	12/23/80		1.44	630000	uCi/L	O	30% crystals	RAW	Cs137	2.33E+10	1.69E+10	
A101	Cs137	11/11/80	RAT-A101-5B	1.45	622000	uCi/l	F	Filtrate	Braun	Cs137	2.30E+10	1.66E+10	
A101	Cs137	11/11/80		1.45	622000	uCi/L	F	filtrate - 4 ft. sample	RAW	Cs137	2.30E+10	1.66E+10	
S102	Cs137	1/2/75	T-1091	1.58	3E+06	uCi/gal	P	Supernate	Braun	Cs137	2.63E+10	1.66E+10	
S102	Cs137	1/2/75	T-1091	1.58	3E+06	uCi/gal	L	no solids	RAW	Cs137	2.63E+10	1.66E+10	
C105	Cs137	2/1/91			305000	nCi/g	U	N2O2/Zr	RAW	Cs137	1.81E+10	1.65E+10	
A102	Cs137	5/19/87	92XDXXXX	1.51	531000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.96E+10	1.65E+10	
C105	Cs137	2/1/91			302000	nCi/g	U	KOH/Ni	RAW	Cs137	1.79E+10	1.63E+10	
A102	Cs137	3/8/86	92XD00XX	1.51	531000	uCi/l	L	Liquor	Braun	Cs137	1.96E+10	1.60E+10	
SX101	Cs137	2/7/79	E-00162		614000	uCi/l	P	Supernate	Braun	Cs137	2.27E+10	1.58E+10	
SX101	Cs137	2/7/79	E-00162		614000	uCi/l	L	LIQUID	RAW	Cs137	2.27E+10	1.58E+10	
SX108	Cs137	4/1/81		1.712	4E+06	uCi/gal	L	LIQUID	RAW	Cs137	3.42E+10	1.57E+10	
BY112	Cs137	4/4/72	RAT-BY112-2	1.42	483	uCi/gm	L	Liquid	Braun	Cs137	2.54E+10	1.50E+10	
BY112	Cs137	4/4/72		1.42	483	uCi/g	L	Liquid	RAW	Cs137	2.54E+10	1.50E+10	
SX104	Cs137	7/7/88		1.5	450000	uCi/L	L	LIQUID	RAW	Cs137	1.67E+10	1.43E+10	
SX104	Cs137	5/14/88					L	Drainable Liquid	Wastren	Cs137	1.67E+10	1.43E+10	
SX104	Cs137	5/14/88	RAT-SX104-3	1.5	450000	uCi/l	P	Supernate	Braun	Cs137	1.67E+10	1.43E+10	
TX118	Cs137	7/24/73	T-7349	1.4285	2E+06	uCi/gal	O		RAW	Cs137	2.31E+10	1.41E+10	
SX104	Cs137	3/15/76		1.49	573000	uCi/L	L	LIQUOR	RAW	Cs137	2.12E+10	1.38E+10	
C105	Cs137	5/19/87		1.23	442000	uCi/L	L	Drainable Liquor	RAW	Cs137	1.64E+10	1.37E+10	
C105	Cs137	5/19/87	C1XDXXXX	1.23	442000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.64E+10	1.37E+10	
SX104	Cs137	12/5/75	T-375	1.49	2E+06	uCi/gal	U		RAW	Cs137	2.12E+10	1.37E+10	
S102	Cs137	8/15/75	T-7092	1.513	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.12E+10	1.36E+10	
S102	Cs137	8/15/75	T-7092	1.513	2E+06	uCi/gal	O		RAW	Cs137	2.12E+10	1.36E+10	
S102	Cs137	8/15/75	7092	1.513	2E+06	uCi/gal	O		RAW	Cs137	2.12E+10	1.36E+10	
A102	Cs137	5/19/87	91XDXXXX	1.52	434000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.61E+10	1.35E+10	
C105	Cs137	4/11/86					L	Drainable Liquid	Wastren	Cs137	1.64E+10	1.34E+10	
C105	Cs137	4/11/86	C1XD00XX	1.23	442000	uCi/l	L	Liquor	Braun	Cs137	1.64E+10	1.34E+10	
AX101	Cs137	8/19/80					P	Supernate	Wastren	Cs137	1.85E+10	1.33E+10	
AX101	Cs137	8/19/80	T-3103	1.512	499000	uCi/l	P	Supernate	Braun	Cs137	1.85E+10	1.33E+10	
S102	Cs137	10/21/74	T-8077	1.5357	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.10E+10	1.32E+10	
S102	Cs137	10/21/74	T-8077	1.5357	2E+06	uCi/gal	O		RAW	Cs137	2.10E+10	1.32E+10	
AX103	Cs137	4/27/80	T-93	1.376	500000	uCi/l	P	Supernate	Braun	Cs137	1.85E+10	1.32E+10	
AX103	Cs137	4/27/80	T-93	1.376	500000	uCi/L	L	no solids	RAW	Cs137	1.85E+10	1.32E+10	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AX103	Cs137	4/27/80					P	Supernate	Wastren	Cs137	1.85E+10	1.32E+10	
TX106	Cs137	8/19/76	T-6312	1.437	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.00E+10	1.31E+10	
TX106	Cs137	8/19/76	T-6312	1.437	2E+06	uCi/gal	L	no solids ..	RAW	Cs137	2.00E+10	1.31E+10	
SX105	Cs137	12/12/75	377	1.5	2E+06	uCi/gal	U		RAW	Cs137	2.03E+10	1.31E+10	
S102	Cs137	4/17/74	T-3370	1.5	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.11E+10	1.31E+10	
A102	Cs137	3/6/86	91XDOOX	1.52	434000	uCi/l	L	Liquor	Braun	Cs137	1.61E+10	1.31E+10	
S102	Cs137	6/13/75	T-5137	1.41	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.01E+10	1.28E+10	
BY101	Cs137						L		TRAC	Cs137	1.77E+10	1.28E+10	
BY104	Cs137	3/16/76		1.45	530000	uCi/L	P	supernatant	RAW	Cs137	1.96E+10	1.27E+10	
BY104	Cs137	2/6/76	RAT-BY104-2	1.45	530000	uCi/l	P	Supernate	Braun	Cs137	1.96E+10	1.27E+10	
TX118	Cs137	4/18/73	T-6683	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.09E+10	1.27E+10	
S102	Cs137	9/17/74	T-6622	1.4856	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.02E+10	1.27E+10	
S102	Cs137	9/17/74	T-6622	1.4856	2E+06	uCi/gal	O		RAW	Cs137	2.02E+10	1.27E+10	
TX118	Cs137	5/23/73	T-7116	1.37	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.08E+10	1.27E+10	
TX118	Cs137	5/23/73	T-7116	1.373	2E+06	uCi/gal	U		RAW	Cs137	2.08E+10	1.27E+10	
S102	Cs137	11/11/75	T-9697	1.42	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.96E+10	1.26E+10	
S102	Cs137	11/10/75	T-9601	1.42	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.96E+10	1.26E+10	
TX110	Cs137	8/4/79	RAT-TX110-1	1.419	486000	uCi/l	P	Supernate	Braun	Cs137	1.80E+10	1.26E+10	
TX112	Cs137	1/21/74	T-832		552000	uCi/l	P	Supernate	Braun	Cs137	2.04E+10	1.26E+10	
TX112	Cs137	1/21/74	T-832		552000	uCi/L	U		RAW	Cs137	2.04E+10	1.26E+10	
A103	Cs137	5/19/87	B2XDXXX	1.48	406000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.50E+10	1.26E+10	
S102	Cs137	10/21/74	T-6761	1.4669	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.00E+10	1.26E+10	
S102	Cs137	10/21/74	T-6761	1.4669	2E+06	uCi/gal	O		RAW	Cs137	2.00E+10	1.26E+10	
TX118	Cs137	11/30/72	T-4043	1.43	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.08E+10	1.25E+10	
TX118	Cs137	11/29/72	T-4043	1.425	2E+06	uCi/gal	O		RAW	Cs137	2.08E+10	1.25E+10	
S106	Cs137	6/4/75					P	Supernate	Wastren	Cs137	1.96E+10	1.25E+10	
S106	Cs137	6/4/75	RAT-S106-3	1.45	529000	uCi/l	P	Supernate	Braun	Cs137	1.96E+10	1.25E+10	
S106	Cs137	6/4/75		1.45	529000	uCi/L	L	Sup	RAW	Cs137	1.96E+10	1.25E+10	
TX104	Cs137	4/19/76					P	Supernate	Wastren	Cs137	1.91E+10	1.24E+10	
TX104	Cs137	4/19/76	T-4391	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.91E+10	1.24E+10	
TX104	Cs137	4/19/76	T-4391	1.4	2E+06	uCi/gal	U		RAW	Cs137	1.91E+10	1.24E+10	
A103	Cs137	4/3/86	B2XDXXX	1.48	406000	uCi/l	L	Liquor	Braun	Cs137	1.50E+10	1.23E+10	
TX118	Cs137	10/21/74	T-7743	1.59	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.95E+10	1.23E+10	
TX118	Cs137	10/21/74	T-7743	1.5886	2E+06	uCi/gal	U		RAW	Cs137	1.95E+10	1.23E+10	
A103	Cs137	4/3/86					L	Drainable Liquid	Wastren	Cs137	1.50E+10	1.23E+10	
TX118	Cs137	12/18/74	T-462	1.5732	2E+06	uCi/gal	U		RAW	Cs137	1.95E+10	1.23E+10	
TX118	Cs137	12/8/74	T-462	1.5732	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.95E+10	1.23E+10	
TX118	Cs137	3/5/73	T-5860	1.44	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.02E+10	1.22E+10	
TX118	Cs137	3/5/73	T-5860	1.441	2E+06	uCi/gal	O	NO SOLIDS	RAW	Cs137	2.02E+10	1.22E+10	
TX109	Cs137	5/20/75			519000	uCi/L	L		RAW	Cs137	1.92E+10	1.22E+10	
SX106	Cs137	3/31/77		1.45	495000	uCi/L	L	LIQUID	RAW	Cs137	1.83E+10	1.22E+10	
A101	Cs137	11/10/80	RAT-A101-9B	1.43	455000	uCi/l	F	Filtrate	Braun	Cs137	1.68E+10	1.22E+10	
A101	Cs137	11/10/80		1.43	455000	uCi/L	F	filtrate - 2 ft. sample	RAW	Cs137	1.68E+10	1.22E+10	
SX106	Cs137	2/28/77	RAT-SX106-2	1.45	495000	uCi/l	P	Supernate	Braun	Cs137	1.83E+10	1.21E+10	
SX106	Cs137	2/28/77	RAT-SX106-2	1.58	495000	uCi/l	P	Supernate	Braun	Cs137	1.83E+10	1.21E+10	
SX106	Cs137	2/28/77	RAT-SX106-2	1.6	495000	uCi/l	P	Supernate	Braun	Cs137	1.83E+10	1.21E+10	
SX106	Cs137	2/28/77		1.45	495000	uCi/L	P	Supernatant	RAW	Cs137	1.83E+10	1.21E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
A103	Cs137	9/22/80	RAT-A103-6	1.436	456000	uCi/l	P	Supernate	Braun	Cs137	1.69E+10	1.21E+10	
A103	Cs137	9/22/80		1.436	456000	uCi/L	P	Sup	RAW	Cs137	1.69E+10	1.21E+10	
A106	Cs137	5/19/87	A2XDXXXX	1.36	391000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.45E+10	1.21E+10	
SX102	Cs137	9/3/80	T-2959	1.555	454000	uCi/L	U		RAW	Cs137	1.68E+10	1.21E+10	
TX118	Cs137	12/20/72	T-4312	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	2.00E+10	1.21E+10	
S102	Cs137	1/5/76	T-1193	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.87E+10	1.21E+10	
TX118	Cs137	11/15/72	T-3775	1.4415	2E+06	uCi/gal	U		RAW	Cs137	2.00E+10	1.20E+10	
A103	Cs137	5/19/87	B1XDXXXX	1.476	387000	uCi/l	L	Drainable Liquor	RAW	Cs137	1.43E+10	1.20E+10	
AX101	Cs137	8/19/80	T-3102	1.445	448000	uCi/l	P	Supernate	Braun	Cs137	1.66E+10	1.19E+10	
S111	Cs137	8/25/78	1009-C	1.44	468000	uCi/l	P	Supernate	Braun	Cs137	1.73E+10	1.19E+10	
S111	Cs137	8/25/78	1009-C	1.46	468000	uCi/l	P	Supernate	Braun	Cs137	1.73E+10	1.19E+10	
S111	Cs137	8/25/78		1.46	468000	uCi/l	P	Sup	RAW	Cs137	1.73E+10	1.19E+10	
S111	Cs137	8/25/78		1.46	468000	uCi/L	P	Supernatant	RAW	Cs137	1.73E+10	1.19E+10	
TX118	Cs137	1/20/75	T-1542		2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.88E+10	1.19E+10	
TX118	Cs137	1/20/75	T-1542		2E+06	uCi/gal	U		RAW	Cs137	1.88E+10	1.19E+10	
A106	Cs137	3/13/86					L	Drainable Liquid	Wastren	Cs137	1.45E+10	1.18E+10	
A106	Cs137	3/13/86	A2XD00XX	1.36	391000	uCi/l	L	Liquor	Braun	Cs137	1.45E+10	1.18E+10	
A103	Cs137	4/7/80	T-9536	1.417	448000	uCi/l	P	Supernate	Braun	Cs137	1.66E+10	1.18E+10	
A103	Cs137	4/7/80	T-9536	1.417	448000	uCi/L	L	liquid	RAW	Cs137	1.66E+10	1.18E+10	
TX111	Cs137	9/3/74	T-8452	1.5559	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.88E+10	1.18E+10	
TX111	Cs137	9/3/74	T-8452	1.5559	2E+06	uCi/gal	U		RAW	Cs137	1.88E+10	1.18E+10	
TX118	Cs137	10/21/74	T-7960	1.5554	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.87E+10	1.17E+10	
TX118	Cs137	10/21/74	T-7960	1.5554	2E+06	uCi/gal	U		RAW	Cs137	1.87E+10	1.17E+10	
A103	Cs137	3/26/86	B1XD00XX	1.476	387000	uCi/l	L	Liquor	Braun	Cs137	1.43E+10	1.17E+10	
TX118	Cs137	12/6/74	T-8775	1.616	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.86E+10	1.17E+10	
TX118	Cs137	12/6/74	T-8775	1.616	2E+06	uCi/gal	O		RAW	Cs137	1.86E+10	1.17E+10	
S102	Cs137	11/24/75	T-119	1.44	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.81E+10	1.16E+10	
S102	Cs137	11/24/75	T-119	1.44	2E+06	uCi/gal	U	cruddy, Unknown	RAW	Cs137	1.81E+10	1.16E+10	
S102	Cs137	11/1/74	T-8604	1.484	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.84E+10	1.16E+10	
S102	Cs137	11/1/74	T-8604	1.484	2E+06	uCi/gal	O		RAW	Cs137	1.84E+10	1.16E+10	
TX105	Cs137	8/19/76	T-6311	1.403	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.76E+10	1.15E+10	
S109	Cs137	9/16/74	T-4544	1.7607	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.84E+10	1.15E+10	
S109	Cs137	9/16/74	T-4544	1.7607	2E+06	uCi/gal	O		RAW	Cs137	1.84E+10	1.15E+10	
TX102	Cs137	2/3/81	RAT-TX102-1A	1.465	428000	uCi/l	F	Filtrate	Braun	Cs137	1.58E+10	1.15E+10	
TX102	Cs137	2/3/81		1.446	428000	uCi/L	F	filtrate	RAW	Cs137	1.58E+10	1.15E+10	
S102	Cs137	4/10/75	T-3478	1.38	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.81E+10	1.15E+10	
S102	Cs137	4/10/75	T-3478	1.38	2E+06	uCi/gal	O		RAW	Cs137	1.81E+10	1.15E+10	
S102	Cs137	4/10/75	3478	1.38	2E+06	uCi/gal	O		RAW	Cs137	1.81E+10	1.15E+10	
TX118	Cs137	1/21/74	T-835		502000	uCi/l	P	Supernate	Braun	Cs137	1.86E+10	1.15E+10	
TX118	Cs137	1/21/74	T-835		502000	uCi/L	U		RAW	Cs137	1.86E+10	1.15E+10	
TX103	Cs137	3/1/76	T-2955	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.77E+10	1.15E+10	
TX103	Cs137	3/1/76	T-2955	1.4	2E+06	uCi/gal	O		RAW	Cs137	1.77E+10	1.15E+10	
BY109	Cs137	1/31/73	T-5124	1.396	2E+06	uCi/gal	O	Other	RAW	Cs137	1.90E+10	1.15E+10	
S102	Cs137	11/5/75	T-9515	1.41	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.78E+10	1.14E+10	
TX118	Cs137	4/24/73	T-6731	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.88E+10	1.14E+10	
TX118	Cs137	4/24/73	T-6731	1.4035	2E+06	uCi/gal	O		RAW	Cs137	1.88E+10	1.14E+10	
BY109	Cs137	1/16/73	T-4911	1.404	2E+06	uCi/gal	O	Other	RAW	Cs137	1.89E+10	1.14E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AX103	Cs137	4/27/80	T-92	1.274	428000	uCi/l	P	Supernate	Braun	Cs137	1.58E+10	1.13E+10	
AX103	Cs137	4/27/80	T-92	1.274	428000	uCi/L	L	no solids	RAW	Cs137	1.58E+10	1.13E+10	
AX102	Cs137	11/14/88					P	Supernate	Wastren	Cs137	1.30E+10	1.13E+10	
TX118	Cs137	12/31/74	T-1057	1.618	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.79E+10	1.13E+10	
TX118	Cs137	12/31/74	T-1057	1.618	2E+06	uCi/gal	U		RAW	Cs137	1.79E+10	1.13E+10	
AX102	Cs137	11/14/88	RAT-AX102-3		350000	uCi/l	P	Supernate	Braun	Cs137	1.30E+10	1.12E+10	
AX102	Cs137	11/14/88			350000	uCi/L	P	Supernatant	RAW	Cs137	1.30E+10	1.12E+10	
TX118	Cs137	2/13/74	T-2290	1.48	486000	uCi/l	P	Supernate	Braun	Cs137	1.80E+10	1.11E+10	
BY109	Cs137	5/7/73	T-8877	1.439	2E+06	uCi/gal	U	Cruddy, Unknown	RAW	Cs137	1.83E+10	1.11E+10	
S102	Cs137	11/4/74	T-7562	1.4345	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.76E+10	1.11E+10	
TX102	Cs137	9/24/65		1.418	585000	uCi/L	L		RAW	Cs137	2.16E+10	1.10E+10	
S102	Cs137	11/26/74	T-9706	1.5142	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.75E+10	1.10E+10	
S102	Cs137	3/28/75	T-3109	1.36	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.73E+10	1.10E+10	
S102	Cs137	3/28/75	T-3109	1.36	2E+06	uCi/gal	L	cloudy	RAW	Cs137	1.73E+10	1.10E+10	
TX118	Cs137	12/17/74	T-231	1.5234	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.74E+10	1.10E+10	
TX118	Cs137	12/17/74	T-231	1.5234	2E+06	uCi/gal	U		RAW	Cs137	1.74E+10	1.10E+10	
S102	Cs137	12/9/75	T-506	1.43	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.70E+10	1.10E+10	
S102	Cs137	12/9/75	T-506	1.43	2E+06	uCi/gal	O		RAW	Cs137	1.70E+10	1.10E+10	
TX110	Cs137	3/15/65	RAT-TX110-3	1.418	585000	uCi/l	P	Supernate	Braun	Cs137	2.16E+10	1.09E+10	
SX102	Cs137	10/14/74	T-8736	1.2239	489000	uCi/L	L	LIQUID, NO SOLIDS	RAW	Cs137	1.74E+10	1.09E+10	
TX118	Cs137	2/25/75	T-9434	1.5346	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.72E+10	1.09E+10	
TX118	Cs137	2/25/75	T-9434	1.5346	2E+06	uCi/gal	U		RAW	Cs137	1.72E+10	1.09E+10	
A103	Cs137	11/13/72	RAT-A103-1	1.175	0.49	Ci/l	P	Supernate	Braun	Cs137	1.81E+10	1.09E+10	
A103	Cs137	11/13/72		1.175	0.49	Ci/L	P	supernatant	RAW	Cs137	1.81E+10	1.09E+10	
S112	Cs137	12/9/74	T-8122	1.5909	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.71E+10	1.08E+10	
S107	Cs137	10/16/79		1.525	412000	uCi/L	L	liquid	RAW	Cs137	1.52E+10	1.07E+10	
TX118	Cs137	3/20/73	T-6086	1.38	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.77E+10	1.07E+10	
TX118	Cs137	3/20/73	T-6086	1.3777	2E+06	uCi/gal	O		RAW	Cs137	1.77E+10	1.07E+10	
S102	Cs137	1/7/75	T-1229-DUP1	1.4224	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.69E+10	1.07E+10	
TX118	Cs137	2/11/74	T-1944	1.471	466000	uCi/L	U		RAW	Cs137	1.72E+10	1.07E+10	
BY106	Cs137	6/3/91					L	Drainable Liquid	Wastren	Cs137	1.15E+10	1.06E+10	
TX118	Cs137	5/23/74	T-4333	1.532	2E+06	uCi/gal	U		RAW	Cs137	1.70E+10	1.06E+10	
S108	Cs137	7/8/74	RAT-S108-4	1.513	458000	uCi/l	P	Supernate	Braun	Cs137	1.69E+10	1.06E+10	
S108	Cs137	7/8/74		1.513	458000	uCi/L	P	Sup	RAW	Cs137	1.69E+10	1.06E+10	
BY106	Cs137	6/3/91	R-8083	1.46	310000	uCi/l	P	Supernate	Braun	Cs137	1.15E+10	1.06E+10	
BY106	Cs137	6/3/91	R-8093	1.47	310000	uCi/l	P	Supernate	Braun	Cs137	1.15E+10	1.06E+10	
S102	Cs137	4/1/75	T-1369	1.34	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.66E+10	1.05E+10	
S102	Cs137	4/1/75	T-1369	1.34	2E+06	uCi/gal	O		RAW	Cs137	1.66E+10	1.05E+10	
S108	Cs137	6/30/74					P	Supernate	Wastren	Cs137	1.69E+10	1.05E+10	
S107	Cs137	10/16/78	4251	1.525	412000	uCi/l	P	Supernate	Braun	Cs137	1.52E+10	1.05E+10	
S107	Cs137	10/16/78					L	Drainable Liquid	Wastren	Cs137	1.52E+10	1.05E+10	
S102	Cs137	8/25/75	T-7340	1.395	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.83E+10	1.05E+10	
S102	Cs137	8/25/75	T-7340	1.395	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.83E+10	1.05E+10	
BY109	Cs137	9/26/72	T-2490	1.282	2E+06	uCi/gal	O	Other	RAW	Cs137	1.74E+10	1.04E+10	
BY109	Cs137	4/5/73	T-6394	1.4432	2E+06	uCi/gal	O	Other	RAW	Cs137	1.71E+10	1.04E+10	
S102	Cs137	9/30/75	T-8446	1.398	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.60E+10	1.03E+10	
S102	Cs137	9/30/75	T-8446	1.398	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.60E+10	1.03E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S102	Cs137	10/29/74	T-8779	1.3691	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.63E+10	1.03E+10	
S102	Cs137	10/29/74	T-8779	1.3691	2E+06	uCi/gal	O		RAW	Cs137	1.63E+10	1.03E+10	
TX103	Cs137	4/9/76	T-4138	1.43	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.57E+10	1.02E+10	
TX118	Cs137	4/6/73	T-6362	1.3	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.68E+10	1.02E+10	
TX118	Cs137	4/6/73	T-6362	1.3025	2E+06	uCi/gal	O		RAW	Cs137	1.68E+10	1.02E+10	
S102	Cs137	7/3/74	T-5458	1.4923	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.63E+10	1.02E+10	
S102	Cs137	7/3/74	T-5458	1.4923	2E+06	uCi/gal	O		RAW	Cs137	1.63E+10	1.02E+10	
S102	Cs137	4/4/75	T-3328	1.34	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.60E+10	1.02E+10	
TX118	Cs137	2/21/73	T-5592	1.38	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.68E+10	1.02E+10	
TX118	Cs137	2/21/73	T-5592	1.374	2E+06	uCi/gal	U		RAW	Cs137	1.68E+10	1.02E+10	
SX106	Cs137	2/28/77		1.58	414000	uCi/L	P	Supernatant	RAW	Cs137	1.53E+10	1.02E+10	
S102	Cs137	10/14/74	T-7439	1.445	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.60E+10	1.01E+10	
S102	Cs137	10/14/74	T-7439	1.445	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.60E+10	1.01E+10	
BY109	Cs137	11/16/72	T-3743	1.402	2E+06	uCi/gal	O	Other	RAW	Cs137	1.67E+10	1.00E+10	
BY109	Cs137	5/23/73	T-7119	1.3765	2E+06	uCi/gal	U	Cruddy, Unknown	RAW	Cs137	1.64E+10	9.99E+09	
TX118	Cs137	5/6/74	T-3574	1.39	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.60E+10	9.98E+09	
TX118	Cs137	5/6/74	T-3574	1.3899	2E+06	uCi/gal	U		RAW	Cs137	1.60E+10	9.96E+09	
TX102	Cs137	2/2/76	T-1990	1.456	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.53E+10	9.93E+09	
S102	Cs137	1/22/75	T-933	1.6515	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.56E+10	9.88E+09	
S102	Cs137	12/30/74	T-933	1.6515	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.56E+10	9.87E+09	
TX109	Cs137	2/2/76	T-2034	1.386	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.52E+10	9.87E+09	
TX109	Cs137	2/2/76	T-2034	1.386	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.52E+10	9.87E+09	
BY109	Cs137	8/10/72	T-7993	1.463	2E+06	uCi/gal	O	Other	RAW	Cs137	1.65E+10	9.87E+09	
TX118	Cs137	8/10/72	T-8257	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.65E+10	9.87E+09	
S102	Cs137	1/20/76	T-1683	1.39	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.52E+10	9.86E+09	
TX118	Cs137	8/8/72	T-7220	1.45	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.64E+10	9.81E+09	
TX118	Cs137	8/8/72	T-7220	1.4528	2E+06	uCi/gal	U		RAW	Cs137	1.64E+10	9.81E+09	
SX106	Cs137	2/25/77	RAT-SX106-1	1.458	398000	uCi/l	P	Supernate	Braun	Cs137	1.47E+10	9.77E+09	
SX106	Cs137	2/25/77		1.458	398000	uCi/L	L	LIQUID	RAW	Cs137	1.47E+10	9.77E+09	
S102	Cs137	6/28/74	T-5232	1.5027	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.56E+10	9.75E+09	
S102	Cs137	6/28/74	T-5232	1.5027	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.56E+10	9.75E+09	
TX118	Cs137	5/24/74	T-4556	1.45	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.56E+10	9.73E+09	
TX118	Cs137	5/24/74	T-4556	1.4524	2E+06	uCi/gal	U		RAW	Cs137	1.56E+10	9.73E+09	
TY102	Cs137						L		TRAC	Cs137	1.34E+10	9.72E+09	
BY109	Cs137	3/1/73	T-5655	1.3895	2E+06	uCi/gal	O	Other	RAW	Cs137	1.60E+10	9.70E+09	
BY109	Cs137	8/3/72	T-5953	1.381	2E+06	uCi/gal	O	Other	RAW	Cs137	1.62E+10	9.69E+09	
TX118	Cs137	11/5/74	T-9274	1.426	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.53E+10	9.65E+09	
TX118	Cs137	11/5/74	T-9274	1.426	2E+06	uCi/gal	U		RAW	Cs137	1.53E+10	9.65E+09	
SX106	Cs137	4/18/78	8301	1.33	380000	uCi/l	P	Supernate	Braun	Cs137	1.41E+10	9.57E+09	
SX106	Cs137	4/18/78	8301	1.37	380000	uCi/l	P	Supernate	Braun	Cs137	1.41E+10	9.57E+09	
SX106	Cs137	4/18/78		1.37	380000	uCi/L	P	Supernatant	RAW	Cs137	1.41E+10	9.57E+09	
TX118	Cs137	2/24/75	T-2264		2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.51E+10	9.53E+09	
TX102	Cs137	2/2/76	T-1990	1.456	2E+06	uCi/gal	O		RAW	Cs137	1.47E+10	9.49E+09	
S102	Cs137	11/19/74	T-9601	1.4554	2E+06	uCi/gal	O		RAW	Cs137	1.51E+10	9.47E+09	
BY109	Cs137	8/25/72	T-206	1.4415	2E+06	uCi/gal	O	Other	RAW	Cs137	1.58E+10	9.47E+09	
S102	Cs137	10/14/74	T-6214	1.4005	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.51E+10	9.45E+09	
S102	Cs137	10/14/74	T-6214	1.4005	2E+06	uCi/gal	O		RAW	Cs137	1.51E+10	9.45E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information		ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
S102	Cs137	8/19/75	T-7218	1.3662	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.47E+10	9.39E+09			
S102	Cs137	8/19/75	T-7218	1.3662	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.47E+10	9.39E+09			
TX118	Cs137	11/25/74	T-8574	1.4404	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.49E+10	9.35E+09			
TX118	Cs137	11/25/74	T-8574	1.4404	2E+06	uCi/gal	O		RAW	Cs137	1.49E+10	9.35E+09			
TX103	Cs137	1/21/74	T-817		408000	uCi/L	U		RAW	Cs137	1.51E+10	9.32E+09			
BY109	Cs137	12/18/72	T-4316	1.422	2E+06	uCi/gal	O	Other	RAW	Cs137	1.54E+10	9.30E+09			
S102	Cs137	3/17/75	T-2768	1.34	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.47E+10	9.30E+09			
S102	Cs137	3/17/75	T-2768	1.34	2E+06	uCi/gal	O	suspended solids	RAW	Cs137	1.47E+10	9.30E+09			
TX118	Cs137	8/3/72	T-6205	1.4	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.55E+10	9.28E+09			
BY109	Cs137	4/19/73	T-6682	1.4028	2E+06	uCi/gal	O	Other	RAW	Cs137	1.52E+10	9.25E+09			
BY112	Cs137	5/29/71			430000	uCi/L	P	Supernatant	RAW	Cs137	1.59E+10	9.24E+09			
TX118	Cs137	6/8/75	T-5179	1.18	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.45E+10	9.22E+09			
TX118	Cs137	3/25/74	T-2938	1.405	2E+06	uCi/gal	P	Supernate	Braun	Cs137	1.49E+10	9.21E+09			
TX118	Cs137	3/25/74	T-2938	1.405	2E+06	uCi/gal	L	no solids	RAW	Cs137	1.49E+10	9.21E+09			
S102	Cs137	9/3/75	T-7703	1.3308	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.44E+10	9.21E+09			
S102	Cs137	9/3/75	T-7703	1.3308	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.44E+10	9.21E+09			
BY109	Cs137	2/26/73	T-5594	1.4245	2E+06	uCi/gal	O	Other	RAW	Cs137	1.51E+10	9.10E+09			
TX118	Cs137	10/28/74	T-8232	1.42	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.45E+10	9.09E+09			
TX118	Cs137	10/28/74	T-8232	1.42	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.45E+10	9.09E+09			
TX109	Cs137	12/28/75	T-1035	1.398	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.41E+10	9.09E+09			
TX109	Cs137	12/28/75	T-1035	1.398	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.41E+10	9.09E+09			
S102	Cs137	11/3/75	T-9394	1.326	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.41E+10	9.06E+09			
S102	Cs137	11/3/75	T-9394	1.326	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.41E+10	9.06E+09			
TX118	Cs137	8/2/74	T-6109	1.427	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.45E+10	9.04E+09			
TX118	Cs137	8/2/74	T-6109	1.427	1E+06	uCi/gal	U		RAW	Cs137	1.45E+10	9.04E+09			
BX106	Cs137	12/4/74	T-8441	1.4901	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.43E+10	8.99E+09			
BX106	Cs137	12/4/74	T-8441	1.4901	1E+06	uCi/gal	O	Other	RAW	Cs137	1.43E+10	8.99E+09			
S102	Cs137	1/7/76	T-1330	1.38	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.39E+10	8.97E+09			
S102	Cs137	12/5/75	T-378	1.39	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.39E+10	8.95E+09			
S102	Cs137	12/5/75	T-378	1.39	1E+06	uCi/gal	O		RAW	Cs137	1.39E+10	8.95E+09			
TX118	Cs137	5/6/74	T-3701	1.33	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.44E+10	8.93E+09			
TX118	Cs137	5/6/74	T-3701	1.3283	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.44E+10	8.93E+09			
S102	Cs137	11/19/74	T-9103	1.407	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.42E+10	8.92E+09			
S102	Cs137	11/19/74	T-9103	1.407	1E+06	uCi/gal	O		RAW	Cs137	1.42E+10	8.92E+09			
S106	Cs137	12/16/74	T-8035	1.5414	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.41E+10	8.87E+09			
BY109	Cs137	8/3/72	T-6968	1.4425	2E+06	uCi/gal	O	Other	RAW	Cs137	1.49E+10	8.87E+09			
TX118	Cs137	11/20/74	T-8378	1.4639	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.41E+10	8.86E+09			
TX118	Cs137	11/20/74	T-8378	1.4639	1E+06	uCi/gal	U		RAW	Cs137	1.41E+10	8.86E+09			
TX118	Cs137	5/29/75	T-4900	1.2	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.39E+10	8.84E+09			
S102	Cs137	7/18/75	T-6226	1.31	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.38E+10	8.81E+09			
S102	Cs137	7/18/75	T-6226	1.31	1E+06	uCi/gal	O		RAW	Cs137	1.38E+10	8.81E+09			
BY109	Cs137	9/12/72	T-1832	1.42	2E+06	uCi/gal	O	Other	RAW	Cs137	1.47E+10	8.78E+09			
S102	Cs137	9/29/75	T-8350	1.346	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.36E+10	8.72E+09			
S102	Cs137	9/29/75	T-8350	1.346	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.36E+10	8.72E+09			
SX103	Cs137	10/10/77	1104		350000	uCi/L	U		RAW	Cs137	1.30E+10	8.71E+09			
TX110	Cs137	3/17/75	T-2704	1.37	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.37E+10	8.68E+09			
TX110	Cs137	3/17/75	T-2784	1.37	1E+06	uCi/gal	U		RAW	Cs137	1.37E+10	8.68E+09			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TX118	Cs137	3/17/75	T-2784	1.37	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.37E+10	8.68E+09	
TX118	Cs137	3/17/75	T-2784	1.37	1E+06	uCi/gal	U		RAW	Cs137	1.37E+10	8.68E+09	
S102	Cs137	12/6/74	T-423	1.4272	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.37E+10	8.62E+09	
BX111	Cs137	3/16/90	R-6041	1.44	259000	uCi/l	P	Supernate	Braun	Cs137	9.58E+09	8.58E+09	
BX111	Cs137	3/16/90	R6041	1.14	259000	uCi/L	P	Sup, H2O	RAW	Cs137	9.58E+09	8.58E+09	
BX111	Cs137	3/16/90					P	Supernate	Wastren	Cs137	9.58E+09	8.58E+09	
S102	Cs137	3/10/75	T-2617	1.32	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.35E+10	8.55E+09	
S102	Cs137	3/10/75	T-2617	1.32	1E+06	uCi/gal	L		RAW	Cs137	1.35E+10	8.55E+09	
TX118	Cs137	2/18/75	T-2123	1.4637	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.35E+10	8.54E+09	
TX118	Cs137	2/18/75	T-2123	1.4637	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.35E+10	8.54E+09	
TX118	Cs137	1/26/76	T-1809	1.296	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.32E+10	8.53E+09	
TX118	Cs137	1/26/76		1.296	1E+06	uCi/gal	L	No solids	RAW	Cs137	1.32E+10	8.53E+09	
TX118	Cs137	1/26/76	T-1809	1.296	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.32E+10	8.53E+09	
S102	Cs137	12/17/74	T-8008	1.4202	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.35E+10	8.50E+09	
S102	Cs137	7/9/75	T-5984	1.35	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.33E+10	8.49E+09	
TX118	Cs137	2/25/75	T-9991	1.397	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.34E+10	8.48E+09	
TX118	Cs137	2/25/75	T-9991	1.397	1E+06	uCi/gal	U		RAW	Cs137	1.34E+10	8.48E+09	
SX103	Cs137	10/10/77					P	Supernate	Wastren	Cs137	1.26E+10	8.48E+09	
BX102	Cs137	9/30/74	T-8511	1.4669	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.35E+10	8.46E+09	
BX102	Cs137	9/30/74	T-8511	1.4669	1E+06	uCi/gal	O	Other	RAW	Cs137	1.35E+10	8.46E+09	
SX103	Cs137	10/10/77	1104	1.5	340000	uCi/l	P	Supernate	Braun	Cs137	1.26E+10	8.46E+09	
SX103	Cs137	10/10/77	1104	2	340000	uCi/l	P	Supernate	Braun	Cs137	1.26E+10	8.46E+09	
SX103	Cs137	10/10/77	1104(AP#5426,JS#48)		340000	uCi/L	P	Supernatant	RAW	Cs137	1.26E+10	8.46E+09	
U103	Cs137	12/10/77	3665	1.547	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.25E+10	8.45E+09	
TX118	Cs137	6/9/75	T-5253	1.08	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.32E+10	8.41E+09	
TX118	Cs137	6/9/75	T-5253	1.08	1E+06	uCi/gal	L		RAW	Cs137	1.32E+10	8.41E+09	
S102	Cs137	1/20/75	T-1231	1.4586	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.33E+10	8.40E+09	
S102	Cs137	1/20/75	T-1231	1.4586	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.33E+10	8.40E+09	
TX118	Cs137	5/14/74	T-3868	1.42	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.35E+10	8.39E+09	
TX118	Cs137	5/14/74	T-3868	1.4238	1E+06	uCi/gal	U		RAW	Cs137	1.35E+10	8.39E+09	
S102	Cs137	10/14/74	T-6416	1.378	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.33E+10	8.35E+09	
S102	Cs137	10/14/74	T-6416	1.378	1E+06	uCi/gal	O		RAW	Cs137	1.33E+10	8.35E+09	
TX118	Cs137	10/14/74	T-7167	1.43	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.33E+10	8.35E+09	
TX118	Cs137	10/14/74	T-7167	1.427	1E+06	uCi/gal	L	no solids visible	RAW	Cs137	1.33E+10	8.35E+09	
BX111	Cs137	3/16/90	R6041	1.14	251000	uCi/L	P	Sup, Acid	RAW	Cs137	9.29E+09	8.32E+09	
TX118	Cs137	2/11/76	T-2258	1.37	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.28E+10	8.29E+09	
TX118	Cs137	2/11/76	T-2258	1.373	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.28E+10	8.29E+09	
TX118	Cs137	1/5/76	T-1246	1.34	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.27E+10	8.21E+09	
TX118	Cs137	1/5/76	T-1246	1.339	1E+06	uCi/gal	O		RAW	Cs137	1.27E+10	8.21E+09	
BX110	Cs137	5/20/75		1.414	345000	uCi/L	L	Alkaline waste	RAW	Cs137	1.28E+10	8.13E+09	
TX118	Cs137	5/12/72		1.419	1E+06	uCi/gal	P	Supernatant	RAW	Cs137	1.37E+10	8.13E+09	
TY103	Cs137						L		TRAC	Cs137	1.12E+10	8.11E+09	
TX118	Cs137	6/25/74	T-5327	1.3995	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.29E+10	8.05E+09	
TX118	Cs137	6/25/74	T-5327	1.3995	1E+06	uCi/gal	L	no solids, clear	RAW	Cs137	1.29E+10	8.05E+09	
BY109	Cs137	11/28/72	T-4005	1.3617	1E+06	uCi/gal	O	Other	RAW	Cs137	1.33E+10	7.99E+09	
BY109	Cs137	10/6/72	T-2833	1.366	1E+06	uCi/gal	O	Other	RAW	Cs137	1.33E+10	7.97E+09	
BX106	Cs137	4/21/75	T-3855	1.3739	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.25E+10	7.95E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
BX106	Cs137	4/21/75	T-3855	1.3739	1E+06	uCi/gal	O	Other	RAW	Cs137	1.25E+10	7.95E+09	
TX104	Cs137	9/24/65		1.382	419000	uCi/L	L		RAW	Cs137	1.55E+10	7.90E+09	
S102	Cs137	10/10/75	T-8706	1.38	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.22E+10	7.85E+09	
S102	Cs137	10/10/75	T-8706	1.38	1E+06	uCi/gal	L	3 phase	RAW	Cs137	1.22E+10	7.85E+09	
TX104	Cs137	3/15/65	RAT-TX104-1	1.38	419000	uCi/l	P	Supernate	Braun	Cs137	1.55E+10	7.81E+09	
BY110	Cs137						L		TRAC	Cs137	1.08E+10	7.80E+09	
S102	Cs137	10/24/74	8199	1.321	1E+06	uCi/gal	L	No Solids	RAW	Cs137	1.23E+10	7.74E+09	
S102	Cs137	10/21/74	T-8199	1.321	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.23E+10	7.74E+09	
S102	Cs137	10/21/74	T-8199	1.321	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.23E+10	7.74E+09	
TX118	Cs137	8/16/74	T-6343	1.42	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.23E+10	7.71E+09	
TX118	Cs137	8/16/74	T-6343	1.419	1E+06	uCi/gal	O		RAW	Cs137	1.23E+10	7.71E+09	
BY104	Cs137						L		TRAC	Cs137	1.06E+10	7.69E+09	
BY109	Cs137	3/7/73	T-5911	1.335	1E+06	uCi/gal	O	Other	RAW	Cs137	1.24E+10	7.51E+09	
BY102	Cs137	6/3/91					P	Supernate	Wastren	Cs137	8.15E+09	7.51E+09	
TX118	Cs137	6/28/74	T-5551	1.3895	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.20E+10	7.50E+09	
TX118	Cs137	6/28/74	T-5551	1.3895	1E+06	uCi/gal	O		RAW	Cs137	1.20E+10	7.50E+09	
BY103	Cs137	10/14/71	RAT-BY103-1	1.47	344000	uCi/l	P	Supernate	Braun	Cs137	1.27E+10	7.46E+09	
BY103	Cs137	10/14/71		1.469	344000	uCi/L	O	Other	RAW	Cs137	1.27E+10	7.46E+09	
A104	Cs137	3/25/74	T-2893	1.132	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.20E+10	7.45E+09	
A104	Cs137	3/25/74	T-2893	1.132	1E+06	uCi/gal	O	Other	RAW	Cs137	1.20E+10	7.45E+09	
S102	Cs137	1/8/75	632	1.3476	1E+06	uCi/gal	O		RAW	Cs137	1.17E+10	7.40E+09	
TX115	Cs137	1/17/74	T-834		324000	uCi/l	P	Supernate	Braun	Cs137	1.20E+10	7.40E+09	
TX115	Cs137	1/17/74	T-834		324000	uCi/L	U		RAW	Cs137	1.20E+10	7.40E+09	
S102	Cs137	12/16/74	T-632	1.3476	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.17E+10	7.39E+09	
S102	Cs137	12/16/74	T-632	1.3476	1E+06	uCi/gal	O		RAW	Cs137	1.17E+10	7.39E+09	
BY106	Cs137	4/13/72	7394	1.414	337000	uCi/l	P	Supernate	Braun	Cs137	1.25E+10	7.39E+09	
BY106	Cs137	4/13/72	7395	1.415	337000	uCi/l	P	Supernate	Braun	Cs137	1.25E+10	7.39E+09	
TX118	Cs137	12/22/75	T-864	1.31	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.14E+10	7.38E+09	
SX111	Cs137	9/16/74	T-4283	1.4836	1E+06	uCi/gal	L	LIQUID	RAW	Cs137	1.17E+10	7.35E+09	
BY106	Cs137						L		TRAC	Cs137	1.01E+10	7.34E+09	
S106	Cs137	9/21/71		1.429	339000	uCi/L	L	liquor	RAW	Cs137	1.25E+10	7.34E+09	
S102	Cs137	4/2/75	T-3259	1.24	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.15E+10	7.32E+09	
TX118	Cs137	11/25/74	T-8995	1.3398	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.15E+10	7.26E+09	
TX118	Cs137	11/25/74	T-8995	1.3398	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.15E+10	7.26E+09	
A101	Cs137	8/22/80	T-2691	1.2814	273000	uCi/l	P	Supernate	Braun	Cs137	1.01E+10	7.26E+09	
S102	Cs137	3/3/75	T-2415	1.4004	1E+06	uCi/gal	O		RAW	Cs137	1.14E+10	7.25E+09	
BY111	Cs137						L		TRAC	Cs137	9.98E+09	7.23E+09	
S102	Cs137	6/7/74	T-4652	1.4564	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.15E+10	7.18E+09	
S102	Cs137	6/7/74	T-4652	1.4564	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.15E+10	7.18E+09	
S102	Cs137	5/22/74	T-4372	1.4	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.15E+10	7.18E+09	
S102	Cs137	5/22/74	T-4372	1.4	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.15E+10	7.18E+09	
BY106	Cs137	10/14/71	RAT-BY106-1	1.453	330000	uCi/l	P	Supernate	Braun	Cs137	1.22E+10	7.16E+09	
BY106	Cs137	10/14/71		1.453	330000	uCi/L	O	Other	RAW	Cs137	1.22E+10	7.16E+09	
S102	Cs137	7/2/75	T-5792		1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.11E+10	7.11E+09	
S102	Cs137	7/2/75	T-5792		1E+06	uCi/gal	O		RAW	Cs137	1.11E+10	7.11E+09	
BY109	Cs137	2/7/73	T-5391	1.324	1E+06	uCi/gal	O	Other	RAW	Cs137	1.17E+10	7.09E+09	
TX118	Cs137	1/19/76	T-1625	1.28	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.09E+10	7.08E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Cs137	1/19/76	T-1625	1.277	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.09E+10	7.08E+09	
SX103	Cs137	6/10/75		1.38	296000	uCi/L	L	LIQUID	RAW	Cs137	1.10E+10	6.98E+09	
TX107	Cs137	4/28/75	T-3975	1.3804	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.09E+10	6.96E+09	
TX107	Cs137	4/28/75	T-3975	1.3804	1E+06	uCi/gal	L	no solids	RAW	Cs137	1.09E+10	6.96E+09	
SX103	Cs137	4/11/75	RAT-SX103-1B	1.38	296000	uCi/L	P	Supernate	Braun	Cs137	1.10E+10	6.96E+09	
SX103	Cs137	4/11/75		1.38	296000	uCi/L	P	Supernatant	RAW	Cs137	1.10E+10	6.96E+09	
S102	Cs137	7/14/75	T-6042	1.34	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.08E+10	6.93E+09	
S102	Cs137	7/14/75	T-6042	1.34	1E+06	uCi/gal	O		RAW	Cs137	1.08E+10	6.93E+09	
TX118	Cs137	3/29/74	T-3238	1.3	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.11E+10	6.91E+09	
TX118	Cs137	3/29/74	T-3238	1.3	1E+06	uCi/gal	O		RAW	Cs137	1.11E+10	6.91E+09	
BY101	Cs137	8/16/72	T-5404	1.423	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.15E+10	6.89E+09	
BY101	Cs137	8/16/72	T-5404	1.423	1E+06	uCi/gal	O	Other	RAW	Cs137	1.15E+10	6.89E+09	
BY101	Cs137	8/16/72					P	Supernate	Wastren	Cs137	1.15E+10	6.87E+09	
U111	Cs137	5/25/76	9762	1.25	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.05E+10	6.82E+09	
BY103	Cs137	6/3/91	R-8088	1.45	200000	uCi/l	P	Supernate	Braun	Cs137	7.40E+09	6.81E+09	
S102	Cs137	10/14/74	T-7300	1.336	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.08E+10	6.81E+09	
S102	Cs137	10/14/74	T-7300	1.336	1E+06	uCi/gal	L	cloudy,unknown solids	RAW	Cs137	1.08E+10	6.81E+09	
S102	Cs137	4/5/79		1.257	263000	uCi/L	O		RAW	Cs137	9.73E+09	6.77E+09	
S102	Cs137	9/8/75	T-7748	1.2748	1E+06	uCi/gal	O		RAW	Cs137	1.06E+10	6.77E+09	
S102	Cs137	1/31/79	RAT-S102-3	1.257	263000	uCi/l	P	Supernate	Braun	Cs137	9.73E+09	6.75E+09	
A103	Cs137	3/19/80	T-8951	1.24	254000	uCi/l	P	Supernate	Braun	Cs137	9.40E+09	6.69E+09	
A103	Cs137	3/19/80	T-8951	1.24	254000	uCi/L	L	Liquid	RAW	Cs137	9.40E+09	6.69E+09	
TX118	Cs137	12/15/75	T-681	1.31	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.04E+10	6.68E+09	
TX118	Cs137	12/15/75	T-681	1.308	1E+06	uCi/gal	O		RAW	Cs137	1.04E+10	6.68E+09	
BX104	Cs137	2/14/86	71XDOOXX	1.31	220000	uCi/l	L	Liquor	Braun	Cs137	8.14E+09	6.64E+09	
TX118	Cs137	6/10/74	T-4773	1.38	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.06E+10	6.58E+09	
TX118	Cs137	6/10/74	T-4773	1.3812	1E+06	uCi/gal	O		RAW	Cs137	1.06E+10	6.58E+09	
S102	Cs137	11/1/74	T-8339	1.3638	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.05E+10	6.58E+09	
S102	Cs137	11/1/74	T-8339	1.3638	1E+06	uCi/gal	O		RAW	Cs137	1.05E+10	6.58E+09	
S102	Cs137	11/21/75	T-37	1.28	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.02E+10	6.55E+09	
S102	Cs137	11/21/75	T-37	1.28	1E+06	uCi/gal	L		RAW	Cs137	1.02E+10	6.55E+09	
S108	Cs137	11/18/91	T-8597		189000	uCi/L	O		RAW	Cs137	6.99E+09	6.51E+09	
TX118	Cs137	1/14/76	T-1451	1.29	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.01E+10	6.51E+09	
TX118	Cs137	1/14/76	T-1451	1.289	1E+06	uCi/gal	O		RAW	Cs137	1.01E+10	6.51E+09	
BX106	Cs137	3/16/90	R-6037	1.33	196000	uCi/l	P	Supernate	Braun	Cs137	7.25E+09	6.49E+09	
TX118	Cs137	11/24/75	T-87	1.255	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.01E+10	6.49E+09	
TX118	Cs137	11/24/75	T-87	1.255	1E+06	uCi/gal	O		RAW	Cs137	1.01E+10	6.49E+09	
TX118	Cs137	10/27/75	T-9252	1.25	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.01E+10	6.47E+09	
TX118	Cs137	10/27/75	T-9252	1.25	1E+06	uCi/gal	L	no visable solids	RAW	Cs137	1.01E+10	6.47E+09	
SX104	Cs137	10/21/74	T-7326	1.4618	1E+06	uCi/gal	P	Supernate	Braun	Cs137	1.02E+10	6.39E+09	
SX104	Cs137	10/21/74		1.4618	1E+06	uCi/gal	O		RAW	Cs137	1.02E+10	6.39E+09	
TX110	Cs137						L		TRAC	Cs137	8.78E+09	6.36E+09	
BY109	Cs137	3/22/73	T-6123	1.316	1E+06	uCi/gal	O	Other	RAW	Cs137	1.04E+10	6.28E+09	
BY112	Cs137						L		TRAC	Cs137	8.65E+09	6.27E+09	
S102	Cs137	11/19/75	T-9952	1.29	969000	uCi/gal	P	Supernate	Braun	Cs137	9.47E+09	6.10E+09	
S104	Cs137						L		TRAC	Cs137	8.40E+09	6.09E+09	
TX118	Cs137	9/8/75	T-7817	1.16	962000	uCi/gal	P	Supernate	Braun	Cs137	9.40E+09	6.03E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Cs137	9/8/75	T-7817	1.1586	962000	uCi/gal	L	no solids	RAW	Cs137	9.40E+09	6.03E+09	
BY105	Cs137						L		TRAC	Cs137	8.29E+09	6.01E+09	
BY108	Cs137						L		TRAC	Cs137	8.28E+09	6.00E+09	
TX118	Cs137	11/10/75	T-9626	1.272	953000	uCi/gal	L	no visual solids	RAW	Cs137	9.31E+09	6.00E+09	
TX118	Cs137	11/1/75	T-9626	1.27	953000	uCi/gal	P	Supernate	Braun	Cs137	9.31E+09	5.99E+09	
S102	Cs137	5/13/75	T-4388	1.369	963000	uCi/gal	P	Supernate	Braun	Cs137	9.41E+09	5.99E+09	
S102	Cs137	5/13/75	T-4388	1.369	963000	uCi/gal	L	no solids	RAW	Cs137	9.41E+09	5.99E+09	
BY109	Cs137	6/3/91					P	Supernate	Wastren	Cs137	6.44E+09	5.93E+09	
BY109	Cs137	6/3/91	R-8094	1.4	174000	uCi/l	P	Supernate	Braun	Cs137	6.44E+09	5.93E+09	
A102	Cs137	8/4/80	T-2404	1.18	221000	uCi/l	P	Supernate	Braun	Cs137	8.18E+09	5.87E+09	
A102	Cs137	8/4/80	T-2405	1.199	221000	uCi/l	P	Supernate	Braun	Cs137	8.18E+09	5.87E+09	
A102	Cs137	8/4/80	T-2404	1.18	221000	uCi/L	L	no solids	RAW	Cs137	8.18E+09	5.87E+09	
A102	Cs137	8/4/80	T-2405	1.199	221000	uCi/L	L	trace solids	RAW	Cs137	8.18E+09	5.87E+09	
BX106	Cs137	3/16/90	R6037	1.33	177000	uCi/L	P	Supernate	RAW	Cs137	6.55E+09	5.86E+09	
BY109	Cs137	6/3/91	R-8084	1.3	172000	uCi/l	P	Supernate	Braun	Cs137	6.36E+09	5.86E+09	
TX118	Cs137	9/2/75	T-7817	1.24	935000	uCi/gal	P	Supernate	Braun	Cs137	9.14E+09	5.86E+09	
TX118	Cs137	9/2/75	T-7817	1.2367	935000	uCi/gal	L	no solids	RAW	Cs137	9.14E+09	5.86E+09	
TX118	Cs137	4/23/75	T-3262	1.24	938000	uCi/gal	P	Supernate	Braun	Cs137	9.17E+09	5.83E+09	
S102	Cs137	5/13/74	T-3601	1.2839	958000	uCi/gal	P	Supernate	Braun	Cs137	9.36E+09	5.82E+09	
T112	Cs137	8/14/74	T-5821	1.054	942000	uCi/gal	P	Supernate	Braun	Cs137	9.21E+09	5.78E+09	
T112	Cs137	8/14/74		1.054	942000	uCi/gal	L	no solids	RAW	Cs137	9.21E+09	5.78E+09	
S107	Cs137	9/7/78	3148	1.208	226000	uCi/l	P	Supernate	Braun	Cs137	8.36E+09	5.74E+09	
S107	Cs137	9/7/78		1.208	226000	uCi/L	L		RAW	Cs137	8.36E+09	5.74E+09	
S102	Cs137	4/30/75		1.2538	924000	uCi/gal	L	No solids	RAW	Cs137	9.03E+09	5.74E+09	
S102	Cs137	4/29/75	T-4028	1.2538	924000	uCi/gal	P	Supernate	Braun	Cs137	9.03E+09	5.74E+09	
S102	Cs137	4/29/75	T-4028	1.2538	924000	uCi/gal	L	no solids	RAW	Cs137	9.03E+09	5.74E+09	
S102	Cs137	5/8/75	T-4240	1.3612	912000	uCi/gal	P	Supernate	Braun	Cs137	8.91E+09	5.67E+09	
S102	Cs137	5/8/75	T-4240	1.3612	912000	uCi/gal	O		RAW	Cs137	8.91E+09	5.67E+09	
TX118	Cs137	4/10/75	T-3491	1.22	902000	uCi/gal	P	Supernate	Braun	Cs137	8.82E+09	5.60E+09	
TX118	Cs137	4/10/75	T-3491	1.22	902000	uCi/gal	L		RAW	Cs137	8.82E+09	5.60E+09	
SX101	Cs137	11/20/74	T-6496	1.318	908000	uCi/gal	P	Supernate	Braun	Cs137	8.87E+09	5.59E+09	
SX101	Cs137	11/20/74	T-6496	1.318	908000	uCi/gal	L	liquid	RAW	Cs137	8.87E+09	5.59E+09	
SX101	Cs137	11/20/74	6496	1.318	908000	uCi/gal	L	No Solids	RAW	Cs137	8.87E+09	5.59E+09	
TX118	Cs137	4/21/75	T-3751	1.2	898000	uCi/gal	P	Supernate	Braun	Cs137	8.78E+09	5.58E+09	
TX118	Cs137	4/21/75	T-3751	1.2	898000	uCi/gal	U		RAW	Cs137	8.78E+09	5.58E+09	
BX105	Cs137	5/19/87	B2XDXXXX	1.294	179000	uCi/l	L	Drainable Liquor	RAW	Cs137	6.62E+09	5.56E+09	
U103	Cs137	4/18/78	RAT-U103-1	1.2278	231000	uCi/l	P	Supernate	Braun	Cs137	8.55E+09	5.56E+09	
U103	Cs137	4/18/78	RAT-U103-1	1.305	231000	uCi/l	P	Supernate	Braun	Cs137	8.55E+09	5.56E+09	
U103	Cs137	4/18/78		1.2278	231000	uCi/L	P	Supernatant	RAW	Cs137	8.55E+09	5.56E+09	
TX101	Cs137	8/25/72					P	Supernate	Wastren	Cs137	9.25E+09	5.53E+09	
TX101	Cs137	8/25/72	T-9839	1.166	946000	uCi/gal	P	Supernate	Braun	Cs137	9.25E+09	5.53E+09	
TX118	Cs137	5/19/75	T-4553		888000	uCi/gal	P	Supernate	Braun	Cs137	8.68E+09	5.53E+09	
T101	Cs137	3/25/74	T-2286	1.3058	901000	uCi/gal	L	no solids	RAW	Cs137	8.81E+09	5.46E+09	
A101	Cs137	10/3/79	T-3971	1.052	208000	uCi/l	P	Supernate	Braun	Cs137	7.70E+09	5.42E+09	
A101	Cs137	10/3/79	T-3971	1.052	208000	uCi/L	O	Other	RAW	Cs137	7.70E+09	5.42E+09	
A102	Cs137	7/17/80	T-1244	1.1572	204000	uCi/l	P	Supernate	Braun	Cs137	7.55E+09	5.41E+09	
BX105	Cs137	3/4/86	82XD00XX	1.29	179000	uCi/l	L	Liquor	Braun	Cs137	6.62E+09	5.41E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX105	Cs137	3/4/86					P	Supernate	Wastren	Cs137	6.62E+09	5.40E+09	
A102	Cs137	12/8/79	T-6176	1.214	204000	uCi/l	P	Supernate	Braun	Cs137	7.55E+09	5.34E+09	
A102	Cs137	12/8/79	T-6176	1.214	204000	uCi/L	O	Other	RAW	Cs137	7.55E+09	5.34E+09	
A102	Cs137	7/17/80	T-1243	1.1554	201000	uCi/l	P	Supernate	Braun	Cs137	7.44E+09	5.33E+09	
A102	Cs137	7/17/80	T-1243		201000	uCi/L	O	Other	RAW	Cs137	7.44E+09	5.33E+09	
BX105	Cs137	5/19/87	B1XDXXXX	1.291	171000	uCi/l	L	Drainable Liquor	RAW	Cs137	6.33E+09	5.31E+09	
A102	Cs137	7/17/80	T-1245	1.1554	200000	uCi/l	P	Supernate	Braun	Cs137	7.40E+09	5.31E+09	
S102	Cs137	10/25/74	T-8929	1.5197	859000	uCi/gal	P	Supernate	Braun	Cs137	8.40E+09	5.28E+09	
S102	Cs137	10/25/74	T-8929	1.5197	859000	uCi/gal	O		RAW	Cs137	8.40E+09	5.28E+09	
S102	Cs137	2/22/74	T-2359	1.3868	229000	uCi/l	P	Supernate	Braun	Cs137	8.47E+09	5.24E+09	
S102	Cs137	2/22/74	T-2359	1.3868	229000	uCi/L	L	no solids	RAW	Cs137	8.47E+09	5.24E+09	
TX118	Cs137	2/25/75	T-9577	1.346	840000	uCi/gal	P	Supernate	Braun	Cs137	8.21E+09	5.20E+09	
TX118	Cs137	2/25/75	T-9577	1.346	840000	uCi/gal	U		RAW	Cs137	8.21E+09	5.20E+09	
TX118	Cs137	12/1/75	T-267	1.23	825000	uCi/gal	P	Supernate	Braun	Cs137	8.06E+09	5.20E+09	
S102	Cs137	2/17/76	T-2395	1.25	819000	uCi/gal	L	No solids	RAW	Cs137	8.00E+09	5.18E+09	
BY107	Cs137						L		TRAC	Cs137	7.14E+09	5.17E+09	
BX105	Cs137	3/3/86	B1XD00XX	1.29	171000	uCi/l	L	Liquor	Braun	Cs137	6.33E+09	5.16E+09	
S102	Cs137	12/10/74	T-534	1.2582	833000	uCi/gal	P	Supernate	Braun	Cs137	8.14E+09	5.13E+09	
S102	Cs137	12/10/74	T-534	1.2582	833000	uCi/gal	L		RAW	Cs137	8.14E+09	5.13E+09	
T103	Cs137	3/13/74					P	Supernate	Wastren	Cs137	8.25E+09	5.11E+09	
T103	Cs137	3/13/74	T-2288	1.2482	844000	uCi/gal	P	Supernate	Braun	Cs137	8.25E+09	5.11E+09	
T103	Cs137	3/13/74	T-2288	1.2482	844000	uCi/gal	L	No Solids	RAW	Cs137	8.25E+09	5.11E+09	
TX118	Cs137	12/28/75	T-1036	1.18	807000	uCi/gal	P	Supernate	Braun	Cs137	7.89E+09	5.09E+09	
TX118	Cs137	12/28/75	T-1036	1.178	807000	uCi/gal	O		RAW	Cs137	7.89E+09	5.09E+09	
TX118	Cs137	9/29/75	T-8404	1.229	803000	uCi/gal	P	Supernate	Braun	Cs137	7.85E+09	5.04E+09	
S102	Cs137	3/25/74	T-3145	1.3463	825000	uCi/gal	P	Supernate	Braun	Cs137	8.06E+09	5.00E+09	
S102	Cs137	3/25/74	T-3145	1.3463	825000	uCi/gal	O	clear	RAW	Cs137	8.06E+09	5.00E+09	
T103	Cs137	7/24/73	T-7869		221000	uCi/l	U	Unknown	Braun	Cs137	8.18E+09	4.99E+09	
S102	Cs137	6/7/74	T-5030	1.3284	818000	uCi/gal	P	Supernate	Braun	Cs137	8.00E+09	4.98E+09	
S102	Cs137	6/7/74	T-5030	1.3284	818000	uCi/gal	L	trace solids	RAW	Cs137	8.00E+09	4.98E+09	
S106	Cs137	1/21/74	T-738	1.4913	217000	uCi/l	P	Supernate	Braun	Cs137	8.03E+09	4.96E+09	
S106	Cs137	1/21/74	T-738	1.49125	217000	uCi/L	O		RAW	Cs137	8.03E+09	4.96E+09	
T103	Cs137	7/19/73	RAT-T103-1		219000	uCi/l	U	Unknown	Braun	Cs137	8.10E+09	4.95E+09	
TX114	Cs137	1/21/74	T-833		216000	uCi/l	P	Supernate	Braun	Cs137	7.99E+09	4.94E+09	
TX114	Cs137	1/21/74	T-833		216000	uCi/L	O	NO SOILDS	RAW	Cs137	7.99E+09	4.94E+09	
S102	Cs137	7/25/75	T-6453	1.2861	789000	uCi/gal	P	Supernate	Braun	Cs137	7.71E+09	4.93E+09	
S102	Cs137	7/25/75	T-6453	1.2861	789000	uCi/gal	L	no solids	RAW	Cs137	7.71E+09	4.93E+09	
TX103	Cs137	9/21/79	T-1470	1.25	189000	uCi/l	L	Liquor	Braun	Cs137	6.99E+09	4.92E+09	
TX103	Cs137	12/3/79	1469	1.243	185000	uCi/L	L	top	RAW	Cs137	6.85E+09	4.84E+09	
TX103	Cs137	12/3/79	1467	1.261	185000	uCi/L	L	top	RAW	Cs137	6.85E+09	4.84E+09	
TX118	Cs137	7/14/75	T-6083	1.22	772000	uCi/gal	P	Supernate	Braun	Cs137	7.55E+09	4.82E+09	
TX103	Cs137	9/21/79					P	Supernate	Wastren	Cs137	6.85E+09	4.82E+09	
TX103	Cs137	9/21/79	T-1467	1.24	185000	uCi/l	L	Liquor	Braun	Cs137	6.85E+09	4.82E+09	
TX101	Cs137	7/23/79	S-1489	1.243	185000	uCi/L	L	top	RAW	Cs137	6.85E+09	4.80E+09	
TX101	Cs137	7/23/79	S-1467	1.261	185000	uCi/L	L	top	RAW	Cs137	6.85E+09	4.80E+09	
TX103	Cs137	9/21/79	T-1465	1.24	184000	uCi/l	L	Liquor	Braun	Cs137	6.81E+09	4.79E+09	
S102	Cs137	5/24/74	T-4103	1.2704	787000	uCi/gal	P	Supernate	Braun	Cs137	7.69E+09	4.79E+09	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S102	Cs137	5/24/74	T-4103	1.2704	787000	uCi/gal	L	no solids	RAW	Cs137	7.69E+09	4.79E+09	
S102	Cs137	10/23/74	T-9007	1.4866	768000	uCi/gal	P	Supernate	Braun	Cs137	7.51E+09	4.72E+09	
S102	Cs137	10/23/74	9007	1.4866	768000	uCi/gal	O		RAW	Cs137	7.51E+09	4.72E+09	
A106	Cs137	10/27/79	T-4818	1.194	178000	uCi/L	P	Supernate	Braun	Cs137	6.59E+09	4.64E+09	
A106	Cs137	10/27/79	T-4818	1.194	178000	uCi/L	L	no solids	RAW	Cs137	6.59E+09	4.64E+09	
T102	Cs137	3/13/74					P	Supernate	Wastren	Cs137	7.47E+09	4.63E+09	
T102	Cs137	3/13/74	T-2287	1.2382	764000	uCi/gal	P	Supernate	Braun	Cs137	7.47E+09	4.63E+09	
T102	Cs137	2/9/74	T-2287	1.2382	764000	uCi/gal	L	No Solids	RAW	Cs137	7.47E+09	4.62E+09	
S105	Cs137	1/21/74	T-737	1.4833	202000	uCi/L	P	Supernate	Braun	Cs137	7.47E+09	4.62E+09	
S105	Cs137	1/21/74	T-737	1.4833	202000	uCi/L	O		RAW	Cs137	7.47E+09	4.62E+09	
T102	Cs137	7/24/73	T-7892		204000	uCi/L	U	Unknown	Braun	Cs137	7.55E+09	4.61E+09	
T102	Cs137	7/24/73	T-7892		204000	uCi/L	L	No Solids	RAW	Cs137	7.55E+09	4.61E+09	
T102	Cs137	7/20/73	RAT-T102-1		204000	uCi/L	U	Unknown	Braun	Cs137	7.55E+09	4.61E+09	
TX118	Cs137	4/24/75	T-3909	1.2257	738000	uCi/gal	P	Supernate	Braun	Cs137	7.21E+09	4.58E+09	
TX118	Cs137	4/24/75	T-3909	1.2257	738000	uCi/gal	L	no solids	RAW	Cs137	7.21E+09	4.58E+09	
SX105	Cs137	11/19/74	T-7327	1.3444	742000	uCi/gal	P	Supernate	Braun	Cs137	7.25E+09	4.56E+09	
S102	Cs137	1/25/74	T-1746	1.4081	198000	uCi/L	P	Supernate	Braun	Cs137	7.33E+09	4.53E+09	
BX106	Cs137	3/16/90					P	Supernate	Wastren	Cs137	5.00E+09	4.48E+09	
BX110	Cs137	3/16/90					P	Supernate	Wastren	Cs137	5.00E+09	4.47E+09	
BX110	Cs137	3/16/90	R-6040	1.37	135000	uCi/L	P	Supernate	Braun	Cs137	5.00E+09	4.47E+09	
BX110	Cs137	3/16/90	R6040	1.37	135000	uCi/L	P	Sup, H2O	RAW	Cs137	5.00E+09	4.47E+09	
TX118	Cs137	8/11/75	T-6959	1.1653	715000	uCi/gal	P	Supernate	Braun	Cs137	6.99E+09	4.47E+09	
TX118	Cs137	8/11/75	T-6959	1.1653	715000	uCi/gal	L	no solids	RAW	Cs137	6.99E+09	4.47E+09	
S102	Cs137	10/7/75	T-8634	1.19	706000	uCi/gal	P	Supernate	Braun	Cs137	6.90E+09	4.43E+09	
S102	Cs137	10/7/75	T-8634	1.19	706000	uCi/gal	O		RAW	Cs137	6.90E+09	4.43E+09	
S102	Cs137	8/5/75	T-8606	1.32	704000	uCi/gal	P	Supernate	Braun	Cs137	6.88E+09	4.40E+09	
TX118	Cs137	11/19/75	T-9878	1.195	696000	uCi/gal	P	Supernate	Braun	Cs137	6.80E+09	4.38E+09	
TX118	Cs137	11/19/75	T-9878	1.195	696000	uCi/gal	O		RAW	Cs137	6.80E+09	4.38E+09	
SX106	Cs137						L		TRAC	Cs137	6.01E+09	4.35E+09	
BX110	Cs137	3/16/90	R6040	1.37	131000	uCi/L	P	Sup, Acid	RAW	Cs137	4.85E+09	4.34E+09	
U102	Cs137	2/26/74	T-1968	1.3817	189000	uCi/L	P	Supernate	Braun	Cs137	6.99E+09	4.33E+09	
BY109	Cs137	1/8/73	T-4573	1.225	734000	uCi/gal	O	Other	RAW	Cs137	7.17E+09	4.33E+09	
BX104	Cs137	2/26/86	72XDOOXX	1.21	143000	uCi/L	L	Liquor	Braun	Cs137	5.29E+09	4.32E+09	
BX104	Cs137	2/26/86					L	Drainable Liquid	Wastren	Cs137	5.29E+09	4.32E+09	
C103	Cs137	1/3/75	T-1174	1.162	696000	uCi/gal	P	Supernate	Braun	Cs137	6.80E+09	4.29E+09	
C103	Cs137	1/3/75	T-1174	1.162	696000	uCi/gal	L	Solids unknown	RAW	Cs137	6.80E+09	4.29E+09	
A101	Cs137	6/25/74	T-5315		704000	uCi/gal	O	Other	RAW	Cs137	6.88E+09	4.29E+09	
C106	Cs137	3/1/78	7	1.14	178600	uCi/L	L		RAW	Cs137	6.61E+09	4.28E+09	
TX108	Cs137	1/22/75	T-1139	1.4632	689000	uCi/gal	U		RAW	Cs137	6.73E+09	4.26E+09	
TX118	Cs137	10/14/74	T-6730	1.29	693000	uCi/gal	P	Supernate	Braun	Cs137	6.77E+09	4.25E+09	
TX118	Cs137	10/14/74	T-6730	1.2859	693000	uCi/gal	L	no solids	RAW	Cs137	6.77E+09	4.25E+09	
TX108	Cs137	1/2/75	T-1139	1.4632	689000	uCi/gal	P	Supernate	Braun	Cs137	6.73E+09	4.25E+09	
C106	Cs137	9/8/75	T-7808	1.14	676000	uCi/gal	P	Supernate	Braun	Cs137	6.61E+09	4.24E+09	
C106	Cs137	9/8/75	T-7808	1.14	676000	uCi/gal	O	Other	RAW	Cs137	6.61E+09	4.24E+09	
TX118	Cs137	10/13/75	T-8758	1.175	665000	uCi/gal	P	Supernate	Braun	Cs137	6.50E+09	4.18E+09	
TX118	Cs137	10/13/75		1.175	665000	uCi/gal	L		RAW	Cs137	6.50E+09	4.18E+09	
S103	Cs137	12/6/74					P	Supernate	Wastren	Cs137	6.59E+09	4.15E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S103	Cs137	12/6/74	T-8009	1.235	674000	uCi/gal	P	Supernate	Braun	Cs137	6.59E+09	4.15E+09	
S103	Cs137	12/6/74	T-8009	1.235	674000	uCi/gal	L	no solids	RAW	Cs137	6.59E+09	4.15E+09	
BX105	Cs137	10/16/75	T-8924	1.176	654000	uCi/gal	L	Liquor	Braun	Cs137	6.39E+09	4.11E+09	
BX105	Cs137	10/16/75	T-8924	1.176	654000	uCi/gal	L	no solids	RAW	Cs137	6.39E+09	4.11E+09	
TX108	Cs137	1/21/74	T-856	1.403	177000	uCi/l	P	Supernate	Braun	Cs137	6.55E+09	4.04E+09	
TX113	Cs137	1/18/74					P	Supernate	Wastren	Cs137	6.55E+09	4.04E+09	
TX113	Cs137	1/18/74	T-848		177000	uCi/l	P	Supernate	Braun	Cs137	6.55E+09	4.04E+09	
TX113	Cs137	1/18/74	T-848		177000	uCi/L	U		RAW	Cs137	6.55E+09	4.04E+09	
BX103	Cs137	3/17/75	T-2764	1.0373	652000	uCi/gal	L	Liquor	Braun	Cs137	6.37E+09	4.04E+09	
BX103	Cs137	3/17/75	T-2764	1.0373	652000	uCi/gal	O		RAW	Cs137	6.37E+09	4.04E+09	
BX102	Cs137	4/30/70	3270		726000	uCi/gal	P	Supernate	Braun	Cs137	7.10E+09	4.02E+09	
BX102	Cs137	4/30/70	3270		726000	uCi/gal	L	Liquid	RAW	Cs137	7.10E+09	4.02E+09	
C106	Cs137	1/1/78	8	1.18	168032	uCi/L	L		RAW	Cs137	6.22E+09	4.02E+09	
B109	Cs137	10/6/75					P	Supernate	Wastren	Cs137	6.25E+09	4.01E+09	
B109	Cs137	10/6/75	T-8578	1.282	639000	uCi/gal	P	Supernate	Braun	Cs137	6.25E+09	4.01E+09	
B109	Cs137	10/6/75	T-8578	1.282	639000	uCi/gal	L	no solids	RAW	Cs137	6.25E+09	4.01E+09	
TX108	Cs137	9/25/75	T-8261	1.358	637000	uCi/gal	P	Supernate	Braun	Cs137	6.23E+09	4.00E+09	
TX108	Cs137	9/25/75	T-8261	1.358	637000	uCi/gal	L	no solids	RAW	Cs137	6.23E+09	4.00E+09	
C106	Cs137	9/15/75	T-8059	1.18	636000	uCi/gal	P	Supernate	Braun	Cs137	6.22E+09	3.99E+09	
C106	Cs137	9/15/75	T-8059	1.8	636000	uCi/gal	U	Unknown, cruddy	RAW	Cs137	6.22E+09	3.99E+09	
S102	Cs137	4/25/75	2278	1.1914	636000	uCi/gal	L	No solids	RAW	Cs137	6.22E+09	3.95E+09	
S102	Cs137	2/24/75	T-2278	1.1914	636000	uCi/gal	P	Supernate	Braun	Cs137	6.22E+09	3.94E+09	
S102	Cs137	2/24/75	T-2278	1.1914	636000	uCi/gal	L	no solids	RAW	Cs137	6.22E+09	3.94E+09	
S102	Cs137	2/25/74	T-2520	1.3315	169000	uCi/l	P	Supernate	Braun	Cs137	6.25E+09	3.87E+09	
S102	Cs137	2/25/74	T-2520	1.3315	169000	uCi/L	L	no solids	RAW	Cs137	6.25E+09	3.87E+09	
U103	Cs137	9/24/65		1.387	205000	uCi/L	L		RAW	Cs137	7.59E+09	3.87E+09	
TX118	Cs137	6/16/75	T-5393	1.16	616000	uCi/gal	P	Supernate	Braun	Cs137	6.02E+09	3.84E+09	
TX118	Cs137	6/16/75	T-5393	1.16	616000	uCi/gal	L		RAW	Cs137	6.02E+09	3.84E+09	
C112	Cs137	11/20/74	T-6185	1.21	621000	uCi/gal	P	Supernate	Braun	Cs137	6.07E+09	3.82E+09	
C112	Cs137	11/20/74	6185	1.2054	621000	uCi/gal	L	no solids	RAW	Cs137	6.07E+09	3.82E+09	
U103	Cs137	3/15/65	RAT-U103-2	1.387	205000	uCi/l	U	Unknown	Braun	Cs137	7.59E+09	3.82E+09	
C104	Cs137	10/6/75	T-8583	1.227	603000	uCi/gal	P	Supernate	Braun	Cs137	5.89E+09	3.79E+09	
C104	Cs137	10/6/75	T-8583	1.227	603000	uCi/gal	O		RAW	Cs137	5.89E+09	3.79E+09	
TX118	Cs137	7/21/75	T-6309	1.16	605000	uCi/gal	P	Supernate	Braun	Cs137	5.91E+09	3.78E+09	
TX118	Cs137	7/21/75	T-6309	1.16	605000	uCi/gal	U		RAW	Cs137	5.91E+09	3.78E+09	
SX111	Cs137	9/12/75		1.21	159000	uCi/L	L	LIQUID	RAW	Cs137	5.88E+09	3.77E+09	
SX111	Cs137	9/12/75		1.21	159000	uCi/L	P	Supernatant	RAW	Cs137	5.88E+09	3.77E+09	
SX111	Cs137	8/1/75	RAT-SX111-1	1.21	159000	uCi/l	P	Supernate	Braun	Cs137	5.88E+09	3.76E+09	
SX111	Cs137	8/1/75	RAT-SX111-1	1.45	159000	uCi/l	P	Supernate	Braun	Cs137	5.88E+09	3.76E+09	
TX118	Cs137	10/16/81	RAT-TX118-4		136000	uCi/l	P	Supernate	Braun	Cs137	5.03E+09	3.71E+09	
TX118	Cs137	10/16/81			136000	uCi/L	L	surface	RAW	Cs137	5.03E+09	3.71E+09	
TX118	Cs137	10/16/81					P	Supernate	Wastren	Cs137	5.03E+09	3.71E+09	
S102	Cs137	2/11/74	T-2164	1.303	162000	uCi/l	P	Supernate	Braun	Cs137	5.99E+09	3.71E+09	
S102	Cs137	2/11/74	2164	1.303	162000	uCi/L	L	No solid	RAW	Cs137	5.99E+09	3.71E+09	
SX104	Cs137	7/7/88		1.4	0.116	Cl/L	O	Bottom sample 25% solid	RAW	Cs137	4.29E+09	3.70E+09	
C104	Cs137	5/19/87	D1XDXXXX	1.18	118000	uCi/l	L	Drainable Liquor	RAW	Cs137	4.37E+09	3.66E+09	
S104	Cs137	8/12/74	T-4184	1.4456	598000	uCi/gal	P	Supernate	Braun	Cs137	5.84E+09	3.66E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S104	Cs137	8/12/74	T-4184	1.4456	598000	uCi/gal	O		RAW	Cs137	5.84E+09	3.66E+09	
S103	Cs137	10/5/73	T-9490	1.3517	161000	uCi/l	P	Supernate	Braun	Cs137	5.96E+09	3.65E+09	
S103	Cs137	10/5/73	T-9490	1.3517	161000	uCi/L	L	clear	RAW	Cs137	5.96E+09	3.65E+09	
T109	Cs137	3/13/74	T-2289	1.1982	602000	uCi/gal	P	Supernate	Braun	Cs137	5.88E+09	3.65E+09	
T109	Cs137	3/13/74	T-2289	1.1982	602000	uCi/gal	L	no solids	RAW	Cs137	5.88E+09	3.65E+09	
T109	Cs137	3/13/74					P	Supernate	Wastren	Cs137	5.88E+09	3.64E+09	
C103	Cs137	1/24/75	T-1685	1.1729	589000	uCi/gal	P	Supernate	Braun	Cs137	5.76E+09	3.64E+09	
C103	Cs137	1/24/75	T-1685	1.1729	589000	uCi/gal	O	Other	RAW	Cs137	5.76E+09	3.64E+09	
T108	Cs137	5/13/74					P	Supernate	Wastren	Cs137	5.85E+09	3.64E+09	
T108	Cs137	5/13/74	T-3391	1.1823	598000	uCi/gal	P	Supernate	Braun	Cs137	5.84E+09	3.64E+09	
T108	Cs137	5/13/74	T-3391	1.1823	598000	uCi/gal	L	no solids	RAW	Cs137	5.84E+09	3.64E+09	
TX108	Cs137	2/2/76	T-1989	1.386	572000	uCi/gal	P	Supernate	Braun	Cs137	5.59E+09	3.62E+09	
TX108	Cs137	2/2/76	T-1984	1.386	572000	uCi/gal	L	no solids	RAW	Cs137	5.59E+09	3.62E+09	
C104	Cs137	4/15/86					L	Drainable Liquid	Wastren	Cs137	4.37E+09	3.58E+09	
C104	Cs137	4/15/86	D1XDOOXX	1.18	118000	uCi/l	L	Liquor	Braun	Cs137	4.37E+09	3.57E+09	
SX105	Cs137						L		TRAC	Cs137	4.91E+09	3.56E+09	
BX108	Cs137	4/12/74	T-3060	1.2098	583000	uCi/gal	P	Supernate	Braun	Cs137	5.70E+09	3.54E+09	
BX108	Cs137	4/12/74	T-3060	1.2098	583000	uCi/gal	L	no solids	RAW	Cs137	5.70E+09	3.54E+09	
C109	Cs137	6/19/75	T-5490	1.21	564000	uCi/gal	P	Supernate	Braun	Cs137	5.51E+09	3.52E+09	
C109	Cs137	6/19/75	T-5490	1.212	564000	uCi/gal	L	no solids	RAW	Cs137	5.51E+09	3.52E+09	
C109	Cs137	6/19/75					L	Drainable Liquid	Wastren	Cs137	5.51E+09	3.51E+09	
U102	Cs137						L		TRAC	Cs137	4.84E+09	3.51E+09	
S101	Cs137						L		TRAC	Cs137	4.77E+09	3.46E+09	
S108	Cs137						L		TRAC	Cs137	4.74E+09	3.44E+09	
C103	Cs137	5/20/75	T-9661	1.083	545000	uCi/gal	P	Supernate	Braun	Cs137	5.33E+09	3.39E+09	
S101	Cs137	9/21/71		1.412	155	uCi/ml	L		RAW	Cs137	5.74E+09	3.38E+09	
C103	Cs137	11/11/74	T-9661	1.083	545000	uCi/gal	L	no solids	RAW	Cs137	5.33E+09	3.35E+09	
C104	Cs137	11/19/74	T-5312	1.1539	541000	uCi/gal	P	Supernate	Braun	Cs137	5.29E+09	3.33E+09	
S102	Cs137	6/17/74	T-3770	1.315	545000	uCi/gal	P	Supernate	Braun	Cs137	5.33E+09	3.32E+09	
S102	Cs137	6/17/74	T-3770	1.315	545000	uCi/gal	O		RAW	Cs137	5.33E+09	3.32E+09	
U102	Cs137	3/1/76					P	Supernate	Wastren	Cs137	5.07E+09	3.29E+09	
U102	Cs137	3/1/76	RAT-U102-1	1.27	137000	uCi/l	P	Supernate	Braun	Cs137	5.07E+09	3.29E+09	
U102	Cs137	3/1/76	RAT-U102-1	1.38	137000	uCi/l	P	Supernate	Braun	Cs137	5.07E+09	3.29E+09	
U102	Cs137	3/1/76	RAT-U102-1	1.6	137000	uCi/l	P	Supernate	Braun	Cs137	5.07E+09	3.29E+09	
U102	Cs137	3/1/76		1.27	137000	uCi/L	P	Supernatant	RAW	Cs137	5.07E+09	3.29E+09	
U103	Cs137	1/30/74	T-1542U	1.322	140000	uCi/l	P	Supernate	Braun	Cs137	5.18E+09	3.20E+09	
U103	Cs137	1/30/74	T-1542	1.322	140000	uCi/L	L		RAW	Cs137	5.18E+09	3.20E+09	
TX118	Cs137	9/18/75	T-7177	1.12	490000	uCi/gal	P	Supernate	Braun	Cs137	4.79E+09	3.07E+09	
TX118	Cs137	8/18/75	T-7177	1.1225	490000	uCi/gal	L	no solids	RAW	Cs137	4.79E+09	3.07E+09	
T101	Cs137	8/1/89	RAT-T101-1	1.2	93600	uCi/l	P	Supernate	Braun	Cs137	3.46E+09	3.06E+09	
T101	Cs137	8/1/89		1.2	93600	uCi/L	P	Supernatant	RAW	Cs137	3.46E+09	3.06E+09	
T101	Cs137	8/1/89					P	Supernate	Wastren	Cs137	3.46E+09	3.05E+09	
T101	Cs137	3/3/75	T-2381	1.3049	488000	uCi/gal	P	Supernate	Braun	Cs137	4.77E+09	3.02E+09	
T101	Cs137	3/3/75	T-2381	1.3049	488000	uCi/gal	L	no solids	RAW	Cs137	4.77E+09	3.02E+09	
SX104	Cs137						L		TRAC	Cs137	4.13E+09	2.99E+09	
C112	Cs137	10/27/75	5824	1.1222	474000	uCi/gal	L	no solids	RAW	Cs137	4.63E+09	2.98E+09	
S107	Cs137	12/17/74	T-8078	1.201	481000	uCi/gal	P	Supernate	Braun	Cs137	4.70E+09	2.96E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
S107	Cs137	12/17/74	T-8078	1.201	481000	uCi/gal	L	no solids	RAW	Cs137	4.70E+09	2.96E+09		
C112	Cs137	6/26/75	T-5624	1.12	474000	uCi/gal	P	Supernate	Braun	Cs137	4.63E+09	2.96E+09		
C112	Cs137	6/26/75					L	Drainable Liquid	Wastren	Cs137	4.63E+09	2.95E+09		
U106	Cs137	2/26/74	T-1970	1.3058	129000	uCi/l	P	Supernate	Braun	Cs137	4.77E+09	2.95E+09		
U106	Cs137	2/26/74	T-1970	1.3058	129000	uCi/L	L	no solids	RAW	Cs137	4.77E+09	2.95E+09		
U106	Cs137	2/26/74					P	Supernate	Wastren	Cs137	4.77E+09	2.95E+09		
TX118	Cs137	2/13/74	T-2290	1.4802	486000	uCi/gal	U		RAW	Cs137	4.75E+09	2.94E+09		
S102	Cs137	9/2/75	T-7627	1.1716	461000	uCi/gal	P	Supernate	Braun	Cs137	4.51E+09	2.89E+09		
S102	Cs137	9/2/75	7627	1.1716	461000	uCi/gal	L	No solids	RAW	Cs137	4.51E+09	2.89E+09		
SX102	Cs137	10/14/74	T-6739	1.2239	469000	uCi/gal	L	No solids (Rerun)	RAW	Cs137	4.58E+09	2.88E+09		
SX102	Cs137	10/14/74	T-6738	1.2239	462000	uCi/gal	P	Supernate	Braun	Cs137	4.52E+09	2.84E+09		
SX102	Cs137	10/14/74	T-6738	1.2239	462000	uCi/gal	L	No solids	RAW	Cs137	4.52E+09	2.84E+09		
TX104	Cs137	9/17/74	T-5118	1.2365	462000	uCi/gal	P	Supernate	Braun	Cs137	4.52E+09	2.83E+09		
TX104	Cs137	9/17/74	T-5118	1.2365	462000	uCi/gal	L	no solids	RAW	Cs137	4.52E+09	2.83E+09		
S102	Cs137	3/25/74	T-3005	1.204	462000	uCi/gal	P	Supernate	Braun	Cs137	4.52E+09	2.80E+09		
S102	Cs137	3/25/74	T-3005	1.204	462000	uCi/gal	L	clear	RAW	Cs137	4.52E+09	2.80E+09		
TX118	Cs137	2/27/74	T-2608	1.4784	462000	uCi/gal	U		RAW	Cs137	4.52E+09	2.80E+09		
C104	Cs137	12/18/75	T-769	1.16	437000	uCi/gal	P	Supernate	Braun	Cs137	4.27E+09	2.76E+09		
C104	Cs137	12/1/75	T-225	1.164	436000	uCi/gal	P	Supernate	Braun	Cs137	4.26E+09	2.75E+09		
C104	Cs137	12/1/75	T-225	1.164	436000	uCi/gal	L	no solids	RAW	Cs137	4.26E+09	2.75E+09		
S102	Cs137	6/19/74	T-5468	1.2258	447000	uCi/gal	P	Supernate	Braun	Cs137	4.37E+09	2.72E+09		
S102	Cs137	6/19/74	T-5468	1.2258	447000	uCi/gal	O		RAW	Cs137	4.37E+09	2.72E+09		
U106	Cs137	3/15/65	RAT-U106-1	1.3	146000	uCi/l	P	Supernate	Braun	Cs137	5.40E+09	2.72E+09		
U106	Cs137	3/15/65		1.303	146000	uCi/L	L		RAW	Cs137	5.40E+09	2.72E+09		
S106	Cs137						L		TRAC	Cs137	3.73E+09	2.70E+09		
C103	Cs137	3/28/75	T-3097	1.1434	433000	uCi/gal	P	Supernate	Braun	Cs137	4.23E+09	2.69E+09		
C103	Cs137	3/28/75	T-3097	1.1434	433000	uCi/gal	L	solids unknown	RAW	Cs137	4.23E+09	2.69E+09		
S102	Cs137	9/21/71		1.317	124	uCi/ml	L		RAW	Cs137	4.59E+09	2.69E+09		
TX118	Cs137	2/26/74	T-2453	1.4907	442000	uCi/gal	U		RAW	Cs137	4.32E+09	2.67E+09		
S112	Cs137	5/10/74		1.501	114000	uCi/L	P	Sup	RAW	Cs137	4.22E+09	2.62E+09		
S112	Cs137	5/10/74		1.501	114000	uCi/L	P	Supernatant	RAW	Cs137	4.22E+09	2.62E+09		
C106	Cs137	9/1/80	4		97900	uCi/L	O		RAW	Cs137	3.62E+09	2.60E+09		
C106	Cs137	9/1/76	6	1.162	106473	uCi/L	O	Other	RAW	Cs137	3.94E+09	2.58E+09		
BY109	Cs137	8/17/72	T-8966	1.455	439000	uCi/gal	O	Other	RAW	Cs137	4.29E+09	2.56E+09		
BY105	Cs137	6/3/91					L	Drainable Liquid	Wastren	Cs137	2.78E+09	2.56E+09		
C106	Cs137	3/15/76	T-3294	1.16	403000	uCi/gal	P	Supernate	Braun	Cs137	3.94E+09	2.56E+09		
C106	Cs137	3/15/76	T-3294	1.162	403000	uCi/gal	O	Other	RAW	Cs137	3.94E+09	2.56E+09		
BY105	Cs137	6/3/91	R-8092	1.4	75000	uCi/l	P	Supernate	Braun	Cs137	2.78E+09	2.56E+09		
BY105	Cs137	6/3/91	R-8082	1.38	74000	uCi/l	P	Supernate	Braun	Cs137	2.74E+09	2.52E+09		
T101	Cs137	6/2/93	R-2846		70.6	uCi/ml	P	Supernatant	RAW	Cs137	2.61E+09	2.52E+09		
B107	Cs137						L		TRAC	Cs137	3.47E+09	2.51E+09		
T101	Cs137	6/2/93	R-2847		70.2	uCi/ml	P	Supernatant	RAW	Cs137	2.60E+09	2.50E+09		
S102	Cs137	10/14/74	6214	1.378	405000	uCi/gal	O		RAW	Cs137	3.96E+09	2.49E+09		
S101	Cs137	9/13/74	T-8084	1.205	405000	uCi/gal	P	Supernate	Braun	Cs137	3.96E+09	2.48E+09		
S101	Cs137	9/13/74	8084	1.205	405000	uCi/gal	L	No Solid	RAW	Cs137	3.96E+09	2.48E+09		
S102	Cs137	11/16/73	T-459	1.2927	106000	uCi/l	P	Supernate	Braun	Cs137	3.92E+09	2.41E+09		
S102	Cs137	11/16/73	459	1.2927	106000	uCi/L	O		RAW	Cs137	3.92E+09	2.41E+09		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S102	Cs137	11/16/73	RAT-S102-4	1.29	400000	uCi/gal	P	Supernate	Braun	Cs137	3.91E+09	2.40E+09	
T101	Cs137	6/2/93	R-2926		67	uCi/ml	P	Supernatant	RAW	Cs137	2.48E+09	2.39E+09	
T105	Cs137	9/17/74	T-4927	1.213	386000	uCi/gal	I	trace solids	RAW	Cs137	3.77E+09	2.37E+09	
TX105	Cs137	9/17/74	T-4927	1.213	386000	uCi/gal	P	Supernate	Braun	Cs137	3.77E+09	2.37E+09	
S105	Cs137	9/3/74		1.462	0.1	Ci/L	L		RAW	Cs137	3.70E+09	2.32E+09	
S102	Cs137	1/6/75	T-841	1.4346	375000	uCi/gal	P	Supernate	Braun	Cs137	3.67E+09	2.31E+09	
S102	Cs137	1/6/75	T-841	1.4346	375000	uCi/gal	L	no solids	RAW	Cs137	3.67E+09	2.31E+09	
S105	Cs137						L		TRAC	Cs137	3.17E+09	2.30E+09	
TX118	Cs137	10/14/74	T-7582	1.4864	368000	uCi/gal	P	Supernate	Braun	Cs137	3.60E+09	2.26E+09	
TX118	Cs137	10/14/74	T-7582	1.4864	368000	uCi/gal	L	no solids	RAW	Cs137	3.60E+09	2.26E+09	
S103	Cs137	9/21/71		1.279	104	uCi/ml	L		RAW	Cs137	3.85E+09	2.25E+09	
S105	Cs137	9/5/74		1.462	97000	uCi/l	L	liquid	RAW	Cs137	3.59E+09	2.25E+09	
S102	Cs137	5/20/75		1.3	361000	uCi/gal	L		RAW	Cs137	3.53E+09	2.25E+09	
C103	Cs137	5/1/75	T-4073	1.16	361000	uCi/gal	P	Supernate	Braun	Cs137	3.53E+09	2.24E+09	
S102	Cs137	10/5/73	T-9488	1.2297	98600	uCi/L	L	no solid	RAW	Cs137	3.65E+09	2.24E+09	
T105	Cs137	5/28/93	B08WT3	0.9933333	62.7	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	2.30E+09	2.22E+09	
S105	Cs137	3/1/74	RAT-S105-1	1.462	0.367	Ci/gal	L	Liquor	Braun	Cs137	3.59E+09	2.22E+09	
C103	Cs137	6/3/91					P	Supernate	Wastren	Cs137	2.37E+09	2.18E+09	
C103	Cs137	6/3/91	R-8108	1.07	64000	uCi/l	P	Supernate	Braun	Cs137	2.37E+09	2.18E+09	
T105	Cs137	5/28/93	B08WT3	0.9933333	61	uCi/g	L	PRIMARY RESULT	TCD	Cs137	2.24E+09	2.16E+09	
C103	Cs137	6/3/91	R-8109	1.06	62000	uCi/l	P	Supernate	Braun	Cs137	2.29E+09	2.11E+09	
BX107	Cs137	11/20/74	T-5921	1.238	340000	uCi/gal	P	Supernate	Braun	Cs137	3.32E+09	2.09E+09	
BX107	Cs137	11/20/74	T-5921	1.238	340000	uCi/gal	L	no solids	RAW	Cs137	3.32E+09	2.09E+09	
SX103	Cs137	3/18/76		1.601	53.8	uCi/g	L	LIQUID	RAW	Cs137	3.19E+09	2.07E+09	
SX103	Cs137	3/18/76		1.601	53.6	uCi/g	P	Supernatant	RAW	Cs137	3.18E+09	2.06E+09	
SX103	Cs137	3/18/76		1.601	53.3	uCi/g	P	Supernatant	RAW	Cs137	3.16E+09	2.05E+09	
C104	Cs137	12/5/75	T-374	1.137	321000	uCi/gal	P	Supernate	Braun	Cs137	3.14E+09	2.02E+09	
C104	Cs137	12/5/75	T-374	1.137	321000	uCi/gal	O		RAW	Cs137	3.14E+09	2.02E+09	
A108	Cs137	6/25/74	T-5316		331000	uCi/gal	P	Supernate	Braun	Cs137	3.24E+09	2.02E+09	
A108	Cs137	6/25/74	T-5316		331000	uCi/gal	O	Other	RAW	Cs137	3.24E+09	2.02E+09	
C110	Cs137	9/19/75	T-5491	1.134	320000	uCi/gal	L	no solids	RAW	Cs137	3.13E+09	2.01E+09	
C110	Cs137	6/19/75	T-5491	1.13	320000	uCi/gal	P	Supernate	Braun	Cs137	3.13E+09	2.00E+09	
T106	Cs137	6/18/73	T-7422		335000	uCi/gal	P	Supernate	Braun	Cs137	3.27E+09	1.99E+09	
T106	Cs137	6/18/73	7422		335000	uCi/gal	L	no solids	RAW	Cs137	3.27E+09	1.99E+09	
S108	Cs137	10/5/73	T-9493	1.2455	87600	uCi/l	P	Supernate	Braun	Cs137	3.24E+09	1.99E+09	
S108	Cs137	10/5/73	T-9493	1.2455	87600	uCi/L	L	clear	RAW	Cs137	3.24E+09	1.99E+09	
TX101	Cs137	10/5/76	T-7478	1.189	309000	uCi/gal	L	no solids	RAW	Cs137	3.02E+09	1.98E+09	
S105	Cs137	10/5/73	T-9491	1.25	86400	uCi/l	P	Supernate	Braun	Cs137	3.20E+09	1.96E+09	
S105	Cs137	10/5/73	T-9491	1.25	86400	uCi/L	L	Clear	RAW	Cs137	3.20E+09	1.96E+09	
S103	Cs137	1/21/74	T-736	1.0742	84200	uCi/l	P	Supernate	Braun	Cs137	3.12E+09	1.92E+09	
S103	Cs137	1/21/74	T-736	1.0742	84200	uCi/L	L	clear	RAW	Cs137	3.12E+09	1.92E+09	
U107	Cs137						L		TRAC	Cs137	2.64E+09	1.92E+09	
S109	Cs137	10/5/73	T-9494	1.249	84400	uCi/l	P	Supernate	Braun	Cs137	3.12E+09	1.92E+09	
S109	Cs137	10/5/73	T-9494	1.249	84400	uCi/L	L	clear	RAW	Cs137	3.12E+09	1.92E+09	
S102	Cs137	9/2/57	T-7627	1.1716	461000	uCi/gal	L	no solids	RAW	Cs137	4.51E+09	1.91E+09	
S106	Cs137	9/21/71		1.268	87.9	uCi/ml	L		RAW	Cs137	3.25E+09	1.90E+09	
TX111	Cs137						L		TRAC	Cs137	2.61E+09	1.89E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S102	Cs137	5/2/75	T-4104		300000	uCi/gal	P	Supernate	Braun	Cs137	2.93E+09	1.86E+09	
S108	Cs137	3/15/65	RAT-S108-3	1.296	98000	uCi/l	P	Supernate	Braun	Cs137	3.63E+09	1.83E+09	
S108	Cs137	3/15/65		1.296	98000	uCi/L	L		RAW	Cs137	3.63E+09	1.83E+09	
S108	Cs137	10/5/73	T-9492	1.2262	79800	uCi/l	P	Supernate	Braun	Cs137	2.95E+09	1.81E+09	
S108	Cs137	10/5/73		1.2262	79800	uCi/L	L	clear	RAW	Cs137	2.95E+09	1.81E+09	
U109	Cs137	11/12/75					P	Supernate	Wastren	Cs137	2.79E+09	1.80E+09	
B105	Cs137						L		TRAC	Cs137	2.46E+09	1.78E+09	
B109	Cs137						L		TRAC	Cs137	2.39E+09	1.73E+09	
T101	Cs137						L		TRAC	Cs137	2.39E+09	1.73E+09	
A101	Cs137	10/14/74	T-8936	1.289	277000	uCi/gal	P	Supernate	Braun	Cs137	2.71E+09	1.70E+09	
BX112	Cs137	3/16/90					P	Supernate	Wastren	Cs137	1.89E+09	1.69E+09	
C104	Cs137	5/23/74	T-4511	1.1171	278000	uCi/gal	P	Supernate	Braun	Cs137	2.72E+09	1.69E+09	
BX111	Cs137	3/16/90	R-6042	1.2	51000	uCi/L	P	supernate	RAW	Cs137	1.89E+09	1.69E+09	
BX112	Cs137	3/16/90	R-6042	1.2	51000	uCi/l	P	Supernate	Braun	Cs137	1.89E+09	1.69E+09	
C103	Cs137	9/16/74	T-6184	1.192	272000	uCi/gal	P	Supernate	Braun	Cs137	2.66E+09	1.67E+09	
C103	Cs137	9/16/74	T-6184	1.192	272000	uCi/gal	L	no solids	RAW	Cs137	2.66E+09	1.67E+09	
C103	Cs137	9/20/74	T-7563	1.0894	254000	uCi/gal	P	Supernate	Braun	Cs137	2.48E+09	1.56E+09	
C103	Cs137	9/20/74	T-7563	1.0894	254000	uCi/gal	L	no solids	RAW	Cs137	2.48E+09	1.56E+09	
BX105	Cs137	2/28/74	T-2048	1.0956	67500	uCi/l	L	Liquor	Braun	Cs137	2.50E+09	1.55E+09	
BX105	Cs137	2/28/74	T-2048	1.0956	67500	uCi/L	L	no solids	RAW	Cs137	2.50E+09	1.55E+09	
BX102	Cs137	1/27/70	T-83	1.03	276000	uCi/gal	P	Supernate	Braun	Cs137	2.70E+09	1.52E+09	
BX102	Cs137	1/27/70	T-83	1.03	276000	uCi/gal	L	Liquid	RAW	Cs137	2.70E+09	1.52E+09	
U111	Cs137						L		TRAC	Cs137	2.07E+09	1.50E+09	
U203	Cs137	9/25/75	T-8246	1.224	233000	uCi/gal	L	No Solids	RAW	Cs137	2.28E+09	1.46E+09	
S110	Cs137	9/21/71		1.269	66	uCi/ml	L		RAW	Cs137	2.44E+09	1.43E+09	
BX106	Cs137	6/7/74	T-3766	1.194	231000	uCi/gal	P	Supernate	Braun	Cs137	2.26E+09	1.41E+09	
BX106	Cs137	6/7/74	T-3766	1.194	231000	uCi/gal	L	no solids	RAW	Cs137	2.26E+09	1.41E+09	
C107	Cs137	6/3/91	R-8046	1.14	41200	uCi/l	P	Supernate	Braun	Cs137	1.52E+09	1.40E+09	
C107	Cs137	6/3/91					L	Drainable Liquid	Wastren	Cs137	1.52E+09	1.40E+09	
C104	Cs137	5/13/74	T-3621	1.0761	227000	uCi/gal	P	Supernate	Braun	Cs137	2.22E+09	1.38E+09	
A102	Cs137	8/19/75	T-7252	1.087	218000	uCi/gal	P	Supernate	Braun	Cs137	2.13E+09	1.36E+09	
A102	Cs137	8/19/75	T-7252	1.087	218000	uCi/gal	L	no solids	RAW	Cs137	2.13E+09	1.36E+09	
BX103	Cs137	4/14/75	T-3635	1.1383	219000	uCi/gal	P	Supernate	Braun	Cs137	2.14E+09	1.36E+09	
BX103	Cs137	4/14/75	T-3635	1.1383	219000	uCi/gal	L	no solids	RAW	Cs137	2.14E+09	1.36E+09	
S112	Cs137	1/7/74	T-181	1.1739	59300	uCi/l	P	Supernate	Braun	Cs137	2.19E+09	1.35E+09	
S112	Cs137	1/7/74	T-181	1.1739	58300	uCi/L	L	No solids	RAW	Cs137	2.16E+09	1.33E+09	
S112	Cs137	1/7/74	T-181	1.1739	58300	uCi/l	L	no solids, clear	RAW	Cs137	2.16E+09	1.33E+09	
S102	Cs137	7/2/74	T-5775	1.045	218000	uCi/gal	P	Supernate	Braun	Cs137	2.13E+09	1.33E+09	
S102	Cs137	7/2/74	T-5775	1.045	218000	uCi/gal	O		RAW	Cs137	2.13E+09	1.33E+09	
AX103	Cs137						L		TRAC	Cs137	1.75E+09	1.27E+09	
S112	Cs137	9/21/71		1.262	57.9	uCi/ml	L		RAW	Cs137	2.14E+09	1.25E+09	
S102	Cs137	9/16/74	T-6006	1.256	203000	uCi/gal	P	Supernate	Braun	Cs137	1.98E+09	1.24E+09	
S102	Cs137	9/16/74	T-6006	1.256	203000	uCi/gal	O		RAW	Cs137	1.98E+09	1.24E+09	
BX104	Cs137	10/29/74	T-9245	1.121	199000	uCi/gal	L	Liquor	Braun	Cs137	1.95E+09	1.22E+09	
BX104	Cs137	10/29/74	T-9245	1.121	199000	uCi/gal	L	no solids	RAW	Cs137	1.95E+09	1.22E+09	
BX104	Cs137	12/6/74	T-365	1.1286	198000	uCi/gal	L	Liquor	Braun	Cs137	1.94E+09	1.22E+09	
BX104	Cs137	12/6/74	T-365	1.1286	198000	uCi/gal	L	no solids	RAW	Cs137	1.94E+09	1.22E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX104	Cs137	8/14/80	T-1784	1.046	44900	uCi/l	P	Supernate	Braun	Cs137	1.66E+09	1.19E+09	
B108	Cs137	10/6/75					P	Supernate	Wastren	Cs137	1.82E+09	1.17E+09	
B108	Cs137	10/6/75	T-8577	1.227	186000	uCi/gal	P	Supernate	Braun	Cs137	1.82E+09	1.17E+09	
B108	Cs137	10/6/75	T-8577	1.227	186000	uCi/gal	L	no solids	RAW	Cs137	1.82E+09	1.17E+09	
B103	Cs137	9/8/75	T-7809	1.1253	186000	uCi/gal	L	no solids	RAW	Cs137	1.82E+09	1.17E+09	
A101	Cs137	10/2/79	T-3970	0.9952	44400	uCi/l	P	Supernate	Braun	Cs137	1.64E+09	1.16E+09	
A101	Cs137	10/2/79	T-3970	0.9952	44400	uCi/L	O	Other	RAW	Cs137	1.64E+09	1.16E+09	
SX101	Cs137	7/14/80	T-1013	1.06	42700	uCi/l	P	Supernate	Braun	Cs137	1.58E+09	1.13E+09	
SX101	Cs137	7/14/80	T-1013	1.06	42700	uCi/L	L	LIQUID	RAW	Cs137	1.58E+09	1.13E+09	
S111	Cs137	9/21/71		1.219	51.6	uCi/ml	L		RAW	Cs137	1.91E+09	1.12E+09	
BX103	Cs137	6/18/75	T-5455	1.1243	179000	uCi/gal	P	Supernate	Braun	Cs137	1.75E+09	1.12E+09	
BX103	Cs137	6/18/75	T-5455	1.124	179000	uCi/gal	L	no solids	RAW	Cs137	1.75E+09	1.12E+09	
TX108	Cs137	1/21/74	T-856	1.403	177000	uCi/gal	U		RAW	Cs137	1.73E+09	1.07E+09	
BX104	Cs137	8/14/80	T-1785	1.046	39700	uCi/l	P	Supernate	Braun	Cs137	1.47E+09	1.06E+09	
B103	Cs137	5/9/75	T-4298	1.117	164000	uCi/gal	P	Supernate	Braun	Cs137	1.60E+09	1.02E+09	
B103	Cs137	5/9/75	T-4298	1.117	164000	uCi/gal	L	no solids	RAW	Cs137	1.60E+09	1.02E+09	
B103	Cs137	5/9/75					P	Supernate	Wastren	Cs137	1.60E+09	1.02E+09	
BX109	Cs137	5/20/75		1.311	43200	uCi/L	L	Alkaline waste	RAW	Cs137	1.60E+09	1.02E+09	
B103	Cs137						L		TRAC	Cs137	1.37E+09	9.90E+08	
C108	Cs137	6/19/75	T-5489	1.13	157000	uCi/gal	P	Supernate	Braun	Cs137	1.53E+09	9.79E+08	
C108	Cs137	6/19/75	T-5489	1.134	157000	uCi/gal	L	no solids	RAW	Cs137	1.53E+09	9.79E+08	
C108	Cs137	6/19/75					L	Drainable Liquid	Wastren	Cs137	1.52E+09	9.70E+08	
B102	Cs137	10/24/75					P	Supernate	Wastren	Cs137	1.48E+09	9.52E+08	
B102	Cs137	10/24/75	T-4887	1.1383	151000	uCi/gal	P	Supernate	Braun	Cs137	1.48E+09	9.49E+08	
B102	Cs137	10/24/75	T-4887	1.1383	151000	uCi/gal	O	Other	RAW	Cs137	1.48E+09	9.49E+08	
SX101	Cs137	2/22/90	R4884	1.11	28500	uCi/L	L	LIQUID	RAW	Cs137	1.05E+09	9.43E+08	
T107	Cs137	9/25/75	T-8248	1.129	148000	uCi/gal	P	Supernate	Braun	Cs137	1.45E+09	9.28E+08	
BX105	Cs137	1/14/75	T-1437	1.2034	150000	uCi/gal	L	Liquor	Braun	Cs137	1.47E+09	9.26E+08	
BX105	Cs137	1/14/75	T-1437	1.2034	150000	uCi/gal	L	no solids	RAW	Cs137	1.47E+09	9.26E+08	
SX101	Cs137	4/26/89	R-4884	1.11	28500	uCi/l	P	Supernate	Braun	Cs137	1.05E+09	9.25E+08	
SX101	Cs137	4/26/89	R4884	1.11	28500	uCi/L	L	Liquid	RAW	Cs137	1.05E+09	9.25E+08	
U111	Cs137	7/8/75	T-5957	1.1178	148000	uCi/gal	L	No Solids	RAW	Cs137	1.45E+09	9.24E+08	
TX114	Cs137						L		TRAC	Cs137	1.24E+09	8.97E+08	
BX104	Cs137	7/15/75	T-6110	1.1471	142000	uCi/gal	L	Liquor	Braun	Cs137	1.39E+09	8.87E+08	
BX104	Cs137	7/15/75	T-6110	1.1471	142000	uCi/gal	L	no solids	RAW	Cs137	1.39E+09	8.87E+08	
TY105	Cs137						L		TRAC	Cs137	1.20E+09	8.68E+08	
TX112	Cs137						L		TRAC	Cs137	1.19E+09	8.63E+08	
C108	Cs137	5/19/87	G1XDXXXX	1.22	27800	uCi/l	L	Drainable Liquor	RAW	Cs137	1.03E+09	8.63E+08	
C108	Cs137	4/14/87		1.22	27800	uCi/L	L	Drainable Liquor	RAW	Cs137	1.03E+09	8.61E+08	
C108	Cs137	5/19/88					L	Drainable Liquid	Wastren	Cs137	1.03E+09	8.45E+08	
C110	Cs137	4/23/92	B08VH6	1.1833333	20.5	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	8.98E+08	8.44E+08	
C108	Cs137	5/19/88	G1XD00XX	1.22	27800	uCi/l	L	Liquor	Braun	Cs137	1.03E+09	8.44E+08	
C108	Cs137	5/19/88		1.22	27800	uCi/L	L	Core, liquid	RAW	Cs137	1.03E+09	8.44E+08	
C110	Cs137	6/3/91	R-8087	1.2	24300	uCi/l	P	Supernate	Braun	Cs137	8.99E+08	8.28E+08	
C110	Cs137	6/3/91					P	Supernate	Wastren	Cs137	8.99E+08	8.28E+08	
BX107	Cs137	3/16/90	R-6038	1.22	24900	uCi/l	P	Supernate	Braun	Cs137	9.21E+08	8.25E+08	
BX107	Cs137	3/16/90	R6038	1.22	24900	uCi/L	P	Sup, H2O	RAW	Cs137	9.21E+08	8.25E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX107	Cs137	3/16/90					P	Supernate	Wastren	Cs137	9.21E+08	8.25E+08	
C110	Cs137	4/23/92	B08VH6	1.1833333	20	uCi/g	L	PRIMARY RESULT	TCD	Cs137	8.76E+08	8.23E+08	
BX107	Cs137	3/16/90	R6038	1.22	24800	uCi/L	P	Sup, Acid	RAW	Cs137	9.18E+08	8.22E+08	
T103	Cs137						L		TRAC	Cs137	1.08E+09	7.86E+08	
C110	Cs137	4/23/92			20.5	uCi/g	L		RAW	Cs137	8.34E+08	7.84E+08	
C109	Cs137						L		TRAC	Cs137	1.08E+09	7.82E+08	
U202	Cs137	9/25/75	T-8245	1.144	124000	uCi/gal	P	Supernate	Braun	Cs137	1.21E+09	7.78E+08	
U202	Cs137	9/25/75	T-8245	1.144	124000	uCi/gal	L	no solids	RAW	Cs137	1.21E+09	7.78E+08	
U202	Cs137	9/25/75					P	Supernate	Wastren	Cs137	1.21E+09	7.77E+08	
TX103	Cs137	9/24/85		1.329	40800	uCi/L	L		RAW	Cs137	1.51E+09	7.70E+08	
BX104	Cs137	8/15/75	T-7088	1.1285	123000	uCi/gal	L	no solids	RAW	Cs137	1.20E+09	7.70E+08	
C110	Cs137	4/23/92			20	uCi/g	L		RAW	Cs137	8.14E+08	7.65E+08	
SX108	Cs137	12/22/78	5268		29100	uCi/L	L	LIQUID	RAW	Cs137	1.08E+09	7.45E+08	
SX108	Cs137	11/13/78	5268		29100	uCi/l	P	Supernate	Braun	Cs137	1.08E+09	7.43E+08	
SX108	Cs137	12/6/74	T-8041	1.004	120000	uCi/gal	P	Supernate	Braun	Cs137	1.17E+09	7.39E+08	
SX108	Cs137	12/6/74	T-8041	1.004	120000	uCi/gal	L	No solids	RAW	Cs137	1.17E+09	7.39E+08	
T107	Cs137	3/5/85	R-3872		25000	uCi/l	P	Supernate	Braun	Cs137	9.25E+08	7.38E+08	
T107	Cs137	3/5/85	12-3872		25000	uCi/l	P	Supernatant	RAW	Cs137	9.25E+08	7.38E+08	
T107	Cs137	8/1/89	RAT-T107-1	1.2	22300	uCi/l	P	Supernate	Braun	Cs137	8.25E+08	7.28E+08	
T107	Cs137	8/1/89		1.2	22300	uCi/L	P	Supernatant	RAW	Cs137	8.25E+08	7.28E+08	
T107	Cs137	8/1/89					P	Supernate	Wastren	Cs137	8.25E+08	7.28E+08	
BX103	Cs137	11/25/74	T-8630	1.063	112000	uCi/gal	P	Supernate	Braun	Cs137	1.09E+09	6.89E+08	
BX103	Cs137	11/25/74	T-8630	1.063	112000	uCi/gal	L	no solids	RAW	Cs137	1.09E+09	6.89E+08	
BX109	Cs137						L		TRAC	Cs137	9.51E+08	6.89E+08	
BX103	Cs137	10/23/75					P	Supernate	Wastren	Cs137	1.07E+09	6.88E+08	
BX103	Cs137	12/18/75	T-9138	1.103	109000	uCi/gal	L	no solids	RAW	Cs137	1.07E+09	6.87E+08	
SX101	Cs137	10/29/80	RAT-SX101-2	1.028	25700	uCi/l	P	Supernate	Braun	Cs137	9.51E+08	6.86E+08	
SX101	Cs137	10/29/80		1.028	25700	uCi/L	O		RAW	Cs137	9.51E+08	6.86E+08	
SX101	Cs137	10/29/80		1.028	25700	uCi/L	O		RAW	Cs137	9.51E+08	6.86E+08	
C103	Cs137	5/19/87	F1XDXXXX	1.11	22100	uCi/l	L	Drainable Liquor	RAW	Cs137	8.18E+08	6.86E+08	
BX103	Cs137	10/23/75	T-9138	1.103	109000	uCi/gal	L	Liquor	Braun	Cs137	1.07E+09	6.85E+08	
C102	Cs137	9/26/75	T-8306	1.136	107000	uCi/gal	P	Supernate	Braun	Cs137	1.05E+09	6.71E+08	
C102	Cs137	9/26/75	T-8306	1.136	107000	uCi/gal	L	no solids	RAW	Cs137	1.05E+09	6.71E+08	
C103	Cs137	5/7/86	F1XDOOXX	1.11	22100	uCi/l	L	Liquor	Braun	Cs137	8.18E+08	6.70E+08	
T107	Cs137	3/1/93	B08V58	1.2	18.7	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	6.92E+08	6.63E+08	
C103	Cs137	5/19/87	F2XDXXXX	1.08	21200	uCi/l	L	Drainable Liquor	RAW	Cs137	7.84E+08	6.58E+08	
TX106	Cs137						L		TRAC	Cs137	8.99E+08	6.51E+08	
C111	Cs137						L		TRAC	Cs137	8.98E+08	6.51E+08	
BX102	Cs137	3/1/70	527		117000	uCi/gal	P	Supernate	Braun	Cs137	1.14E+09	6.46E+08	
BX102	Cs137	3/1/70	527		117000	uCi/gal	L	Liquid	RAW	Cs137	1.14E+09	6.46E+08	
C103	Cs137	5/14/86	F2XDOOXX	1.08	21200	uCi/l	L	Liquor	Braun	Cs137	7.84E+08	6.43E+08	
T108	Cs137	9/24/65		1.403	34000	uCi/L	L		RAW	Cs137	1.26E+09	6.41E+08	
T107	Cs137	3/1/93	B08V58	1.2	18	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	6.68E+08	6.38E+08	
T108	Cs137	3/15/65	RAT-T108-1		34000	uCi/l	U	Unknown	Braun	Cs137	1.26E+09	6.34E+08	
S107	Cs137	11/6/73	178	1.14	100000	uCi/gal	P	Supernate	Braun	Cs137	9.77E+08	6.01E+08	
TY104	Cs137	6/30/87	211DOOXD	1.21	19100	uCi/l	L	Drainable Liquor	RAW	Cs137	7.07E+08	5.95E+08	
C106	Cs137	1/24/77		1.21	24000	uCi/L	P	Sup	RAW	Cs137	8.88E+08	5.88E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX104	Cs137	11/5/75	T-9511	1.087	92000	uCi/gal	L	Liquor	Braun	Cs137	8.99E+08	5.79E+08	
BX104	Cs137	11/5/75	T-9511	1.087	92000	uCi/gal	L	no solids	RAW	Cs137	8.99E+08	5.79E+08	
TY104	Cs137	8/12/85					P	Supernate	Wastren	Cs137	7.07E+08	5.70E+08	
TY104	Cs137	8/12/85	232D00000	1.21	19100	uCi/l	L	Liquor	Braun	Cs137	7.07E+08	5.69E+08	
C106	Cs137	10/10/74	RAT-C106-2	1.21	24000	uCi/l	P	Supernate	Braun	Cs137	8.88E+08	5.58E+08	
C106	Cs137	10/10/74		1.21	24000	uCi/L	P	supernatant	RAW	Cs137	8.88E+08	5.58E+08	
C102	Cs137	6/3/91	R-8089	1.15	16000	uCi/l	P	Supernate	Braun	Cs137	5.92E+08	5.45E+08	
C102	Cs137	6/3/91					P	Supernate	Wastren	Cs137	5.92E+08	5.45E+08	
BX109	Cs137	3/16/90					P	Supernate	Wastren	Cs137	5.96E+08	5.34E+08	
BX109	Cs137	3/16/90	R-6039	1.34	16100	uCi/l	P	Supernate	Braun	Cs137	5.96E+08	5.33E+08	
TY104	Cs137	7/1/87	241DXXXX		17100	uCi/l	L	Drainable Liquor	RAW	Cs137	6.33E+08	5.32E+08	
TX115	Cs137						L		TRAC	Cs137	7.14E+08	5.17E+08	
S107	Cs137	11/17/73	476	1.1592	86000	uCi/gal	P	Supernate	Braun	Cs137	8.41E+08	5.17E+08	
bx109	Cs137	3/16/90	R-6039	1.34	15500	uCi/L	P	supernate	RAW	Cs137	5.74E+08	5.14E+08	
TY104	Cs137	8/6/85	241D00000	1.18	17100	uCi/l	L	Liquor	Braun	Cs137	6.33E+08	5.10E+08	
TY101	Cs137						L		TRAC	Cs137	6.99E+08	5.07E+08	
TY102	Cs137	6/30/87	41XDXXXX		16200	uCi/l	L	Drainable Liquor	RAW	Cs137	5.99E+08	5.04E+08	
TY104	Cs137	6/30/87	211D00XD	1.16	16200	uCi/l	L	Drainable Liquor	RAW	Cs137	5.99E+08	5.04E+08	
TY102	Cs137	9/9/85	41XD00000		16200	uCi/l	L	Liquor	Braun	Cs137	5.99E+08	4.84E+08	
TY102	Cs137	9/9/85					L	Drainable Liquid	Wastren	Cs137	5.99E+08	4.83E+08	
TY104	Cs137	8/6/85	211D00000	1.16	16200	uCi/l	L	Liquor	Braun	Cs137	5.99E+08	4.83E+08	
TX108	Cs137	9/24/65		1.246	25200	uCi/L	L		RAW	Cs137	9.32E+08	4.75E+08	
TX108	Cs137	3/15/65	RAT-TX108-2	1.246	25200	uCi/l	P	Supernate	Braun	Cs137	9.32E+08	4.70E+08	
B102	Cs137						L		TRAC	Cs137	6.34E+08	4.59E+08	
BX112	Cs137						L		TRAC	Cs137	6.22E+08	4.51E+08	
SX101	Cs137	10/29/80	RAT-SX101-1	1.02	16000	uCi/l	P	Supernate	Braun	Cs137	5.92E+08	4.27E+08	
SX101	Cs137	10/29/80		1.02	16000	uCi/L	L	Clear solution, shallow	RAW	Cs137	5.92E+08	4.27E+08	
SX101	Cs137	10/29/80		1.02	16000	uCi/L	L	LIQUID	RAW	Cs137	5.92E+08	4.27E+08	
TX118	Cs137	10/16/81	RAT-TX118-5		15200	uCi/l	P	Supernate	Braun	Cs137	5.62E+08	4.15E+08	
B104	Cs137						L		TRAC	Cs137	5.66E+08	4.10E+08	
U109	Cs137						L		TRAC	Cs137	5.53E+08	4.01E+08	
S109	Cs137	11/19/74	T-8121	1.6717	16400	uCi/L	O		RAW	Cs137	6.07E+08	3.82E+08	
BX104	Cs137	2/28/74	T-2045	1.1325	16300	uCi/l	L	Liquor	Braun	Cs137	6.03E+08	3.73E+08	
BX104	Cs137	2/28/74	T-2045	1.1325	16300	uCi/L	L	no solids	RAW	Cs137	6.03E+08	3.73E+08	
U204	Cs137	9/25/75	T-8247	1.064	59000	uCi/gal	P	Supernate	Braun	Cs137	5.77E+08	3.70E+08	
U204	Cs137	9/25/75	T-8247	1.064	59000	uCi/gal	L	No Solid	RAW	Cs137	5.77E+08	3.70E+08	
TX116	Cs137						L		TRAC	Cs137	4.99E+08	3.62E+08	
A106	Cs137	5/19/87	A1XDXXXX	1.35	11500	uCi/l	L	Drainable Liquor	RAW	Cs137	4.26E+08	3.57E+08	
TX113	Cs137						L		TRAC	Cs137	4.92E+08	3.57E+08	
T107	Cs137	3/5/85			12000	uCi/L	P	Supernatant	RAW	Cs137	4.44E+08	3.54E+08	
A106	Cs137	3/11/86	A1XD00XX	1.35	11500	uCi/l	L	Liquor	Braun	Cs137	4.26E+08	3.47E+08	
A103	Cs137						L		TRAC	Cs137	4.75E+08	3.44E+08	
BX107	Cs137						L		TRAC	Cs137	4.58E+08	3.32E+08	
TX105	Cs137						L		TRAC	Cs137	4.41E+08	3.20E+08	
T109	Cs137						L		TRAC	Cs137	4.39E+08	3.18E+08	
C112	Cs137						L		TRAC	Cs137	4.29E+08	3.11E+08	
TY104	Cs137						L		TRAC	Cs137	4.22E+08	3.05E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
T108	Cs137						L		TRAC	Cs137	3.59E+08	2.60E+08	
U110	Cs137						L		TRAC	Cs137	3.55E+08	2.57E+08	
T102	Cs137						L		TRAC	Cs137	3.51E+08	2.54E+08	
C107	Cs137						L		TRAC	Cs137	3.26E+08	2.36E+08	
C201	Cs137	12/4/78					P	Supernate	Wastren	Cs137	3.29E+08	2.27E+08	
BX112	Cs137	6/11/79		1.22	6.97	uCi/g	L	Waster soluble	RAW	Cs137	3.15E+08	2.20E+08	
TY106	Cs137	7/31/85	111D0000	1.12	7330	uCi/l	L	Liquor	Braun	Cs137	2.71E+08	2.18E+08	
C110	Cs137	4/23/92			5.98	uCi/mL	L		RAW	Cs137	2.21E+08	2.08E+08	
C110	Cs137	4/23/92	B08VP9	1.1	5.98	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.21E+08	2.08E+08	
C110	Cs137	4/23/92			5.9	uCi/mL	L		RAW	Cs137	2.18E+08	2.05E+08	
C110	Cs137	4/23/92	B08VP9	1.1	5.9	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	2.18E+08	2.05E+08	
T104	Cs137						L		TRAC	Cs137	2.81E+08	2.03E+08	
B106	Cs137						L		TRAC	Cs137	2.65E+08	1.92E+08	
T107	Cs137	3/1/93	B08VB5	1.105	5.4	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.00E+08	1.92E+08	
TX105	Cs137	1/21/74	T-805		8280	uCi/l	L	Liquor	Braun	Cs137	3.06E+08	1.89E+08	
BX108	Cs137						L		TRAC	Cs137	2.60E+08	1.89E+08	
T107	Cs137	3/1/93	B08VB5	1.105	5.08	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.87E+08	1.79E+08	
C110	Cs137	4/23/92			4.86	uCi/mL	L		RAW	Cs137	1.80E+08	1.69E+08	
C110	Cs137	4/23/92	B08VM5	1.0033333	4.86	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.80E+08	1.69E+08	
C110	Cs137	4/23/92	B08VP9	1.1	4.86	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.80E+08	1.69E+08	
C110	Cs137	4/23/92	B08VH6	1.1833333	4.86	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.80E+08	1.69E+08	
C110	Cs137	4/23/92			4.84	uCi/mL	L		RAW	Cs137	1.79E+08	1.68E+08	
C110	Cs137	4/23/92	B08VM5	1.0033333	4.84	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.79E+08	1.68E+08	
C110	Cs137	4/23/92	B08VP9	1.1	4.84	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.79E+08	1.68E+08	
C110	Cs137	4/23/92	B08VH6	1.1833333	4.84	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.79E+08	1.68E+08	
TX117	Cs137						L		TRAC	Cs137	2.06E+08	1.50E+08	
T107	Cs137	9/24/65		1.204	7700	uCi/L	L		RAW	Cs137	2.85E+08	1.45E+08	
TX111	Cs137	9/24/65		1.032	28700	uCi/gal	L		RAW	Cs137	2.81E+08	1.43E+08	
TY103	Cs137	6/30/87	353DXXXD	1.24	4540	uCi/l	L	Drainable Liquor	RAW	Cs137	1.68E+08	1.41E+08	
TX110	Cs137	9/24/65		1.333	28100	uCi/gal	L		RAW	Cs137	2.75E+08	1.40E+08	
TY103	Cs137	8/21/85	35XD0000		4540	uCi/l	L	Liquor	Braun	Cs137	1.68E+08	1.35E+08	
T105	Cs137	3/15/65					P	Supernate	Wastren	Cs137	2.63E+08	1.32E+08	
T105	Cs137	3/15/65	RAT-T105-1	1.126	7100	uCi/l	U	Unknown	Braun	Cs137	2.63E+08	1.32E+08	
TX103	Cs137						L		TRAC	Cs137	1.76E+08	1.27E+08	
TX118	Cs137	1/18/73	T-4968	1.355	21000	uCi/gal	U		RAW	Cs137	2.05E+08	1.24E+08	
TX118	Cs137	12/13/72	T-4312	1.4025	20500	uCi/gal	U		RAW	Cs137	2.00E+08	1.21E+08	
TY105	Cs137	7/1/87	61DXXXD		3580	uCi/l	L	Drainable Liquor	RAW	Cs137	1.32E+08	1.11E+08	
TX118	Cs137	8/3/72	T-6205	1.3975	18500	uCi/gal	U		RAW	Cs137	1.81E+08	1.08E+08	
TY105	Cs137	9/13/85	61XC0000		3580	uCi/l	L	Liquor	Braun	Cs137	1.32E+08	1.07E+08	
TY105	Cs137	9/13/85	61XC0000	1.53	3580	uCi/l	L	Liquor	Braun	Cs137	1.32E+08	1.07E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
TY103	Cs137	6/30/87	34XDXXXX	1.24	3170	uCi/l	L	Drainable Liquor	RAW	Cs137	1.17E+08	9.87E+07	
TX118	Cs137	8/10/72	T-8257	1.401	16900	uCi/gal	U		RAW	Cs137	1.65E+08	9.87E+07	
TY103	Cs137	8/21/85	34XD0000		3170	uCi/l	L	Liquor	Braun	Cs137	1.17E+08	9.46E+07	
TY103	Cs137	6/30/87	33XDXXXX	1.24	2960	uCi/l	L	Drainable Liquor	RAW	Cs137	1.10E+08	9.21E+07	
TY103	Cs137	8/21/85					L	Drainable Liquid	Wastren	Cs137	1.10E+08	8.87E+07	
TY103	Cs137	8/21/85	33XD0000	1.24	2960	uCi/l	L	Liquor	Braun	Cs137	1.10E+08	8.83E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Cs137	9/24/65		1.041	3930	uCi/L	L		RAW	Cs137	1.45E+08	7.41E+07	
TY103	Cs137	6/30/87	354DXXXD		2120	uCi/l	L	Drainable Liquor	RAW	Cs137	7.84E+07	6.60E+07	
TY103	Cs137	8/21/85	36XD0000		2120	uCi/l	L	Liquor	Braun	Cs137	7.84E+07	6.32E+07	
T107	Cs137	3/1/93	B08V16	1.02	1.73	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	6.40E+07	6.14E+07	
T107	Cs137	3/1/93	B08V16	1.02	1.7	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	6.29E+07	6.03E+07	
TX102	Cs137						L		TRAC	Cs137	8.08E+07	5.88E+07	
S106	Cs137	10/14/74	T-5469	1.0004	8780	uCi/gal	P	Supernate	Braun	Cs137	8.58E+07	5.39E+07	
S106	Cs137	10/14/74	T-5469	1.0004	8780	uCi/gal	L	no solids, clear	RAW	Cs137	8.58E+07	5.39E+07	
S109	Cs137	9/16/74	T-4544	1.7607	6320	uCi/gal	O		RAW	Cs137	6.18E+07	3.87E+07	
U108	Cs137	1/21/74	T-151	1.0056	1690	uCi/l	P	Supernate	Braun	Cs137	6.25E+07	3.86E+07	
U108	Cs137	1/21/74	T-151	1.0056	1690	uCi/L	L		RAW	Cs137	6.25E+07	3.86E+07	
TX109	Cs137	12/21/73	T-873		1640	uCi/l	P	Supernate	Braun	Cs137	6.07E+07	3.74E+07	
TX109	Cs137	12/21/73	T-873		1640	uCi/L	O	clear	RAW	Cs137	6.07E+07	3.74E+07	
U107	Cs137	10/14/74	T-8938	1.016	4960	uCi/gal	P	Supernate	Braun	Cs137	4.85E+07	3.04E+07	
U107	Cs137	10/14/74	T-8938	1.016	4960	uCi/gal	L	no solids	RAW	Cs137	4.85E+07	3.04E+07	
TX109	Cs137	9/24/65		1.138	1590	uCi/L	L		RAW	Cs137	5.88E+07	3.00E+07	
TX109	Cs137	3/15/65	RAT-TX109-1	1.138	1590	uCi/l	P	Supernate	Braun	Cs137	5.88E+07	2.96E+07	
C110	Cs137	4/23/92			0.851	uCi/mL	L		RAW	Cs137	3.15E+07	2.98E+07	
C110	Cs137	4/23/92	B08VM5	1.0033333	0.851	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.15E+07	2.98E+07	
BX110	Cs137	5/20/75			1230	uCi/L	L	Alkaline waste	RAW	Cs137	4.55E+07	2.90E+07	
C110	Cs137	4/23/92			0.831	uCi/mL	L		RAW	Cs137	3.07E+07	2.89E+07	
C110	Cs137	4/23/92	B08VM5	1.0033333	0.831	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	3.07E+07	2.89E+07	
T204	Cs137	12/4/78					L	Drainable Liquid	Wastren	Cs137	4.00E+07	2.78E+07	
T112	Cs137	9/24/65		1.03	1160	uCi/L	L		RAW	Cs137	4.29E+07	2.19E+07	
T111	Cs137	9/24/65		1.032	1150	uCi/L	L		RAW	Cs137	4.26E+07	2.17E+07	
T111	Cs137	3/15/65					P	Supernate	Wastren	Cs137	4.26E+07	2.15E+07	
T111	Cs137	3/15/65	RAT-T111-1		1150	uCi/l	P	Supernate	Braun	Cs137	4.26E+07	2.14E+07	
TY103	Cs137	6/30/87	363DXXXD		643	uCi/l	L	Drainable Liquor	RAW	Cs137	2.38E+07	2.00E+07	
TY103	Cs137	8/21/85	37XD0000		643	uCi/l	L	Liquor	Braun	Cs137	2.38E+07	1.92E+07	
S102	Cs137	5/2/75	T-4104		3000	uCi/gal	O		RAW	Cs137	2.93E+07	1.86E+07	
BY103	Cs137	6/3/91					L	Drainable Liquid	Wastren	Cs137	2.01E+07	1.85E+07	
A101	Cs137	10/14/74	T-8936	1.289	2770	uCi/gal	U	Unknown	RAW	Cs137	2.71E+07	1.70E+07	
TY101	Cs137	3/15/65	RAT-TY101-1	1.315	850	uCi/l	U	Unknown	Braun	Cs137	3.15E+07	1.58E+07	
T105	Cs137	9/24/65		1.126	710	uCi/L	L		RAW	Cs137	2.63E+07	1.34E+07	
U104	Cs137	2/9/61	M-179	1.048	2860	uCi/gal	L	1' off bottom	RAW	Cs137	2.80E+07	1.28E+07	
S102	Cs137	10/23/74	T-9007	1.4866	2040	uCi/gal	O		RAW	Cs137	1.99E+07	1.25E+07	
C204	Cs137	6/26/75					P	Supernate	Wastren	Cs137	1.75E+07	1.12E+07	
C204	Cs137	6/26/75	T-5625	0.9974	1790	uCi/gal	P	Supernate	Braun	Cs137	1.75E+07	1.12E+07	
S102	Cs137	4/5/79		1.257	407	uCi/L	O		RAW	Cs137	1.51E+07	1.05E+07	
U104	Cs137	2/9/61	M-130	1.019	1680	uCi/gal	L	3' off bottom	RAW	Cs137	1.64E+07	7.53E+06	
C108	Cs137						L		TRAC	Cs137	1.02E+07	7.39E+06	
TX118	Cs137	3/21/79	8385	1.089	200	uCi/l	P	Supernate	Braun	Cs137	7.40E+06	5.15E+06	
TY104	Cs137	9/24/65		1.045	250.8	uCi/L	L		RAW	Cs137	9.28E+06	4.73E+06	
C201	Cs137						L		TRAC	Cs137	5.30E+06	3.84E+06	
T111	Cs137	9/24/74	T-4893	1.0202	572	uCi/gal	P	Supernate	Braun	Cs137	5.59E+06	3.51E+06	
T111	Cs137	9/24/74	T-4893	1.0202	572	uCi/gal	U		RAW	Cs137	5.59E+06	3.51E+06	
T104	Cs137	8/26/92	B08TQ7	1.1	0.0808	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.99E+06	2.83E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
T104	Cs137	8/26/92	B08TQ7	1.1	0.0758	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	2.80E+08	2.66E+08	
TY103	Cs137	3/15/85		1.182	141	uCi/L	L		RAW	Cs137	5.22E+08	2.63E+08	
T111	Cs137	6/7/74	T-3304	1.018	369	uCi/gal	P	Supernate	Braun	Cs137	3.61E+08	2.25E+08	
T111	Cs137	6/7/74	T-3304	1.018	369	uCi/gal	U		RAW	Cs137	3.61E+08	2.25E+08	
TY101	Cs137	12/8/82	T-3533	1.086	77	uCi/l	F	Filtrate	Braun	Cs137	2.85E+08	2.16E+08	
TY101	Cs137	12/8/82		1.086	77	uCi/L	F	Filtrate	RAW	Cs137	2.85E+08	2.16E+08	
U109	Cs137	11/12/75	RAT-U109-1	1.05	75.42	uCi/l	P	Supernate	Braun	Cs137	2.79E+08	1.80E+08	
U109	Cs137	11/12/75	RAT-U109-1	1.24	75.42	uCi/l	P	Supernate	Braun	Cs137	2.79E+08	1.80E+08	
U109	Cs137	11/12/75		1.24	75.42	uCi/L	P	Supernatant	RAW	Cs137	2.79E+08	1.80E+08	
U108	Cs137						L		TRAC	Cs137	2.41E+08	1.74E+08	
C112	Cs137	3/1/92	B08DT5	1.1	0.0454	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.85E+08	1.73E+08	
C112	Cs137	3/1/92	B08DT5	1.1	0.0419	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.71E+08	1.60E+08	
U105	Cs137						L		TRAC	Cs137	1.39E+08	1.00E+08	
S106	Cs137	8/21/74		1.429	33.9	uCi/L	P	Supernatant	RAW	Cs137	1.25E+08	7.85E+05	
T110	Cs137	1/20/75	T-5313	1.084	123	uCi/gal	P	Supernate	Braun	Cs137	1.20E+08	7.60E+05	
T110	Cs137	1/20/75	T-4340	1.084	123	uCi/gal	U		RAW	Cs137	1.20E+08	7.60E+05	
T110	Cs137	1/20/75					P	Supernate	Wastren	Cs137	1.20E+08	7.58E+05	
U103	Cs137						L		TRAC	Cs137	8.86E+05	6.42E+05	
S108	Cs137	7/8/74		1.495	0.0174	uCi/g	L	solid, top	RAW	Cs137	9.62E+05	6.01E+05	
T110	Cs137	5/24/74	T-4340	1.082	97.62	uCi/gal	L	no solids	RAW	Cs137	9.54E+05	5.94E+05	
C112	Cs137	3/1/92	B08DT5	1.1	0.014	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	5.70E+05	5.34E+05	
C112	Cs137	3/1/92	B08DT5	1.1	0.0129	uCi/g	L	PRIMARY RESULT	TCD	Cs137	5.25E+05	4.92E+05	
C112	Cs137	3/1/92	B08DZ5	1.4	0.0078	uCi/g	L	PRIMARY RESULT	TCD	Cs137	4.02E+05	3.77E+05	
C112	Cs137	3/1/92	B08DZ5	1.4	0.0071	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	3.65E+05	3.42E+05	
TY103	Cs137	6/30/87	31XDXXXX	1.22	9.26	uCi/l	L	Drainable Liquor	RAW	Cs137	3.43E+05	2.88E+05	
TY103	Cs137	8/21/85	31XD0000	1.22	9.26	uCi/l	L	Liquor	Braun	Cs137	3.43E+05	2.78E+05	
C204	Cs137						L		TRAC	Cs137	3.05E+05	2.21E+05	
TY108	Cs137	8/29/85	111DXXXX	1.12	6.545	uCi/l	L	Drainable Liquor	RAW	Cs137	2.42E+05	1.95E+05	
B202	Cs137	12/10/75	T-8579	1.018	9.71	uCi/gal	L	no solids	RAW	Cs137	9.49E+04	6.12E+04	
B202	Cs137	10/6/75	T-8579	1.018	9.71	uCi/gal	P	Supernate	Braun	Cs137	9.49E+04	6.10E+04	
T101	Cs137	2/9/74	T-2286	1.306	0.238	uCi/l	P	Supernate	Braun	Cs137	8.81E+03	5.44E+03	
S105	Cs137	3/13/74		1.46	0.097	uCi/L	O		RAW	Cs137	3.59E+03	2.22E+03	
SX101	Cs137	12/4/78	4523	1.76	0.0517	uCi/L	P	Supernatant	RAW	Cs137	1.91E+03	1.32E+03	
TX107	Cs137						L		TRAC	Cs137	3.00E+02	2.17E+02	
TY106	Cs137						L		TRAC	Cs137	1.49E+02	1.08E+02	
TX104	Cs137						L		TRAC	Cs137	8.84E+01	6.41E+01	
U104	Cs137						L		TRAC	Cs137	3.51E+01	2.55E+01	
A106	Cs137						L		TRAC	Cs137	3.22E+01	2.33E+01	
S107	Cs137						L		TRAC	Cs137	1.65E+01	1.20E+01	
C204	Cs137	10/23/75	5625	0.9974	0.0018	uCi/gal	O	Other	RAW	Cs137	1.75E+01	1.12E+01	
U106	Cs137						L		TRAC	Cs137	1.35E+01	9.82E+00	
S102	Cs137						L		TRAC	Cs137	1.21E+01	8.74E+00	
SX104	Cs137	7/7/88		1.414	0.198	Ci/L	O	Topsample (10% solid)	RAW	Cs137	1.00E+01	8.61E+00	
C203	Cs137						L		TRAC	Cs137	7.43E+00	5.39E+00	
C102	Cs137						L		TRAC	Cs137	6.38E+00	4.63E+00	
C104	Cs137						L		TRAC	Cs137	2.77E+00	2.00E+00	
SX101	Cs137						L		TRAC	Cs137	1.14E+00	8.28E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Liquids [Sketch ES-VAL-CR07]
 ASA Value: 2.3E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C110	Cs137						L		TRAC	Cs137	7.09E-02	5.14E-02	
AX101	Cs137						L		TRAC	Cs137	4.78E-02	3.46E-02	
C202	Cs137						L		TRAC	Cs137	6.49E-06	4.70E-06	
AX102	Cs137						L		TRAC	Cs137	9.57E-07	6.93E-07	
T107	Cs137						L		TRAC	Cs137	5.53E-08	4.01E-08	
BX101	Cs137						L		TRAC	Cs137	3.77E-09	2.73E-09	
B101	Cs137						L		TRAC	Cs137	1.38E-20	1.00E-20	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AX103	Cs-137	9/19/74	RAT-AX103-1		3110000	Ci/l	G	Sludge	Braun	Cs-137	1.15E+17	7.21E+16	9
BY112	Cs-137	4/4/72	RAT-BY112-3	1.44	20.6	wt. %	S	Solids	Braun	Cs-137	9.55E+14	5.66E+14	6
C106	Cs-137	4/1/90	RAT-C106-4B		493	ugm/gm	U	Unknown	Braun	Cs-137	1.75E+12	1.56E+12	2
C106	Cs-137	5/19/86	G1XCOOXX	1.43	330	ugm/gm	I	Sludge/Composite	Braun	Cs-137	1.52E+12	1.25E+12	6
C105	Cs-137	4/1/90	RAT-C105-4B		335	ugm/gm	U	Unknown	Braun	Cs-137	1.19E+12	1.06E+12	2
C103	Cs-137	5/7/86	F1XCOOXX	1.13	139	ugm/gm	I	Sludge/Composite	Braun	Cs-137	5.06E+11	4.14E+11	6
T105	Cs-137	10/26/93	RAT-T105-2A	0.89	61.8	ugm/gm	I	Sludge/Composite	Braun	Cs-137	1.77E+11	1.72E+11	6
A103	Cs137	11/1/72			5.78E+00	Ci/L	G	sludge, bottom	RAW	Cs137	2.14E+11	1.28E+11	9
A105	Cs137	5/1/65			6.50E+00	Ci/L	G	sludge	RAW	Cs137	2.41E+11	1.21E+11	9
SX102	Cs-137	11/26/74	RAT-SX102-2A	1.74	4520000	uCi/l	G	Sludge	Braun	Cs-137	1.67E+11	1.05E+11	12
SX102	Cs137	11/26/74		1.74	4.52E+06	uCi/L	G	SLUDGE	RAW	Cs137	1.67E+11	1.05E+11	12
SX102	Cs137	11/26/74		1.74	4.52E+06	uCi/L	G	Sludge(Top Layer)	RAW	Cs137	1.67E+11	1.05E+11	12
TX118	Cs-137	10/16/81	RAT-TX118-6		2130	uCi/gm	S	Supernate/Solids	Braun	Cs-137	1.26E+11	9.30E+10	13
AX101	Cs-137	8/16/76	T-5817		3.3	Ci/l	G	Sludge	Braun	Cs-137	1.22E+11	8.00E+10	9
A103	Cs137	11/13/72		1.175	2.94E-03	Ci/g	G	hard sludge	RAW	Cs137	1.28E+11	7.68E+10	9
ASA Value: 7.47E+10 Bq/L													
TX118	Cs137	10/16/81			1.71E+03	uCi/g	D	Suspended Solids	RAW	Cs137	1.01E+11	7.47E+10	*
AX103	Cs137	11/12/74			3.11E+06	uCi/L	G	sludge	RAW	Cs137	1.15E+11	7.24E+10	
A103	Cs-137	1/24/77	T-667		2.8	Ci/l	G	Sludge	Braun	Cs-137	1.04E+11	6.86E+10	
A103	Cs137	1/24/77	667		2.80E+00	Ci/L	G	sludge	RAW	Cs137	1.04E+11	6.86E+10	
C109	Cs137	9/1/92	B08T69	1.6	1.11E+03	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.57E+10	6.23E+10	
C105	Cs137	11/21/72			1.73E+03	uCi/g	G	sludge	RAW	Cs137	1.02E+11	6.16E+10	
C105	Cs-137	11/21/72	RAT-C105-1	1.52	1730	uCi/gm	G	Sludge	Braun	Cs-137	9.73E+10	5.85E+10	
C112	Cs137	3/1/92	B08DN6	1.3	1.25E+03	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.01E+10	5.63E+10	
A105	Cs137	1/12/72		1.54	1.66E+03	uCi/g	S	solids, dry	RAW	Cs137	9.46E+10	5.58E+10	
C109	Cs137	9/1/92	B08T16	1.3	1.22E+03	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.87E+10	5.56E+10	
C112	Cs137	3/1/92	B08DN6	1.3	1.23E+03	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.92E+10	5.54E+10	
A105	Cs-137	1/12/72	RAT-A105-1B	1.54	1600	uCi/gm	S	Solids	Braun	Cs-137	9.12E+10	5.37E+10	
C109	Cs137	9/1/92	B08T69	1.6	9.52E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.64E+10	5.34E+10	
C109	Cs137	9/1/92	B08T16	1.3	1.17E+03	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.63E+10	5.33E+10	
C109	Cs137	9/1/92	B08T16	1.3	1.14E+03	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.48E+10	5.20E+10	
C112	Cs137	3/1/92	B08DN8	1.6	9.33E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.52E+10	5.17E+10	
C109	Cs137	9/1/92	B08T16	1.3	1.11E+03	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.34E+10	5.06E+10	
C112	Cs137	3/1/92	B08DY1	2	7.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.30E+10	4.96E+10	
C109	Cs137	9/1/92	B08T63	1.6	8.77E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.19E+10	4.92E+10	
C109	Cs137	9/1/92	B08T63	1.6	8.70E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.15E+10	4.88E+10	
AX104	Cs137	9/15/77	#148-JS #22 & 24-AL2302	1.8	1.94E+00	Ci/L	G	sludge	RAW	Cs137	7.18E+10	4.82E+10	
C-109	Cs137				1.2962	Ci/L	S		HTCE Inv.	Cs137		4.80E+10	
AX104	Cs137	3/1/92	B08DY1	2	6.86E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.08E+10	4.76E+10	
AX104	Cs-137	10/14/74	RAT-AX104-1	1.61	2.02	Ci/l	G	Sludge	Braun	Cs-137	7.47E+10	4.69E+10	
AX104	Cs137	10/14/74		1.61	2.02E+00	Ci/L	G	sludge	RAW	Cs137	7.47E+10	4.69E+10	
AX104	Cs137	10/14/74		1.61	2.02E+00	Ci/L	G	sludge	RAW	Cs137	7.47E+10	4.69E+10	
C112	Cs137	7/10/74		1.609	2.02E+00	Ci/L	G	sludge	RAW	Cs137	7.47E+10	4.67E+10	
C112	Cs137	3/1/92	B08DN8	1.6	8.35E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.94E+10	4.63E+10	
AX101	Cs-137	8/16/76	T-5819		1.9	Ci/l	G	Sludge	Braun	Cs-137	7.03E+10	4.61E+10	
C-112	Cs137				1.2020	Ci/L	S		HTCE Inv.	Cs137		4.45E+10	
C112	Cs137	3/1/92	B08DM7	1.6	8.01E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.74E+10	4.44E+10	
C112	Cs137	3/1/92	B08DW5	1.6	7.95E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.71E+10	4.41E+10	
C109	Cs137	3/1/92	B08DW5	1.6	7.90E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.68E+10	4.38E+10	
AX102	Cs137	3/1/92	B08DM7	1.6	7.88E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.66E+10	4.37E+10	
C109	Cs137	9/1/92	B08T15	1.2	9.71E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.31E+10	4.09E+10	
A102	Cs137	7/20/77	1		1.60E+06	uCi/L	G	sludge	RAW	Cs137	5.92E+10	3.96E+10	
A102	Cs137	9/1/92	B08T15	1.2	9.23E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.10E+10	3.88E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
C109	Cs137	9/1/72			1.71E+00	Ci/L	G	sludge	RAW	Cs137	6.33E+10	3.78E+10		
C112	Cs137	1/16/73		1.62	1.01E-03	Ci/g	G	sludge	RAW	Cs137	6.05E+10	3.65E+10		
C112	Cs137	9/1/92	B08T15	1.2	8.12E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.61E+10	3.42E+10		
C109	Cs137	3/1/92	B08DM7	1.6	6.13E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.63E+10	3.40E+10		
AX101	Cs-137	8/16/76	T-5818		1.4	Ci/l	G	Sludge	Braun	Cs-137	5.18E+10	3.39E+10		
C109	Cs137	3/1/92	B08DM7	1.6	6.11E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.62E+10	3.39E+10		
C109	Cs137	9/1/92	B08T17	1.2	7.50E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.33E+10	3.16E+10		
C109	Cs137	9/1/92	B08T17	1.2	7.43E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.30E+10	3.13E+10		
BX-106	Cs137	9/1/92	B08T15	1.2	7.31E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.25E+10	3.08E+10		
A105	Cs137	9/1/92	B08T17	1.2	7.13E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.17E+10	3.00E+10		
C112	Cs137						S		TRAC	Cs137		2.99E+10		
A105	Cs-137	1/12/72	RAT-A105-2	1.43	960	uCi/gm	R	Slurry	Braun	Cs-137	5.08E+10	2.99E+10		
C109	Cs137	1/12/72		1.43	9.60E+02	uCi/g	S	solid, wet	RAW	Cs137	5.08E+10	2.99E+10		
C112	Cs137	3/1/92	B08DN8	1.6	5.35E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.17E+10	2.97E+10		
C109	Cs137	9/1/92	B08T17	1.2	7.00E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.11E+10	2.95E+10		
AX102	Cs137	3/1/92	B08DN8	1.6	5.29E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.13E+10	2.93E+10		
BX101	Cs137	9/1/92	B08T17	1.2	6.96E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.09E+10	2.93E+10		
AX102	Cs-137	9/25/74	RAT-AX102-2	1.57	126000	uCi/l	G	Sludge	Braun	Cs-137	4.66E+10	2.92E+10		
BX101	Cs137	9/25/74		1.57	1.26E+06	uCi/L	G	sludge	RAW	Cs137	4.66E+10	2.92E+10		
C112	Cs137	3/8/76					G	Sludge	Wastren	Cs137	4.44E+10	2.88E+10		
BX101	Cs-137	1/26/76	RAT-BX101-1	1.68	1.2	Ci/l	G	Sludge	Braun	Cs-137	4.44E+10	2.87E+10		
C112	Cs137	1/26/76		1.68	1.20E+00	Ci/L	G	Sludge	RAW	Cs137	4.44E+10	2.87E+10		
C109	Cs137	3/1/92	B08DM7	1.6	5.13E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.04E+10	2.85E+10		
A102	Cs137	3/1/92	B08DM7	1.6	5.02E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.97E+10	2.78E+10		
C106	Cs137	9/1/92	B08T17	1.2	6.60E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.93E+10	2.78E+10		
A104	Cs137	11/1/76	6326		1.10E+00	Ci/L	G	sludge	RAW	Cs137	4.07E+10	2.68E+10		
A104	Cs137	4/1/90	1		5.04E+05	uCi/kg	S		RAW	Cs137	2.98E+10	2.67E+10		
A102	Cs137	9/4/74					G	Sludge	Wastren	Cs137	4.26E+10	2.67E+10		
A104	Cs-137	9/4/74	RAT-A104-1	1.64	1150000	uCi/l	G	Sludge	Braun	Cs-137	4.26E+10	2.67E+10		
A102	Cs137	9/4/74		1.64	1.15E+06	uCi/L	G	sludge	RAW	Cs137	4.26E+10	2.67E+10		
A102	Cs-137	8/1/76	6326		1.1	Ci/l	G	Sludge	Braun	Cs-137	4.07E+10	2.66E+10		
A-105	Cs137				0.7156	Ci/L	S		HTCE Inv.	Cs137		2.65E+10		
AX-104	Cs137				0.7156	Ci/L	S		HTCE Inv.	Cs137		2.65E+10		
A102	Cs-137	5/31/63	RAT-A102-5		891	uCi/gm	G	Sludge	Braun	Cs-137	5.27E+10	2.55E+10		
A102	Cs137	5/31/63			8.91E+02	uCi/g	G	sludge	RAW	Cs137	5.27E+10	2.55E+10		
A102	Cs137	11/1/76	6327		1.04E+00	Ci/L	G	sludge	RAW	Cs137	3.85E+10	2.53E+10		
A102	Cs-137	8/1/76	6327		1.04	Ci/l	G	Sludge	Braun	Cs-137	3.85E+10	2.52E+10		
C112	Cs137	7/20/77	5403		1.00E+06	uCi/L	G	sludge	RAW	Cs137	3.70E+10	2.48E+10		
S102	Cs137	9/1/92	B08T17	1.2	5.53E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.46E+10	2.33E+10		
A103	Cs137	11/1/76	6038		9.20E-01	Ci/L	G	sludge	RAW	Cs137	3.40E+10	2.24E+10		
A103	Cs137	11/1/76	6159		9.20E-01	Ci/L	G	sludge	RAW	Cs137	3.40E+10	2.24E+10		
A102	Cs-137	8/1/76	6038		0.92	Ci/l	G	Sludge	Braun	Cs-137	3.40E+10	2.23E+10		
A102	Cs-137	8/1/76	6159		0.92	Ci/l	G	Sludge	Braun	Cs-137	3.40E+10	2.23E+10		
A101	Cs137	3/1/92	B08DN6	1.3	4.92E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.37E+10	2.22E+10		
S102	Cs137	5/13/74	T-3601	1.2839	9.58E+05	uCi/L	O		RAW	Cs137	3.54E+10	2.20E+10		
AX101	Cs-137	8/16/76	T-6160		0.9	Ci/l	G	Sludge	Braun	Cs-137	3.33E+10	2.18E+10		
C106	Cs137	11/1/72			9.70E-01	Ci/L	G	sludge, top	RAW	Cs137	3.59E+10	2.15E+10		
A103	Cs-137	1/24/77	T-732		0.87	Ci/l	G	Sludge	Braun	Cs-137	3.22E+10	2.13E+10		
C106	Cs137	1/24/77	732		8.70E-01	Ci/L	G	sludge	RAW	Cs137	3.22E+10	2.13E+10		
S110	Cs137	8/22/80	T-2692	1.3017	7.75E+05	uCi/L	O	Other	RAW	Cs137	2.87E+10	2.06E+10		
C106	Cs-137	1/6/75	RAT-C106-5		862000	uCi/l	G	Sludge	Braun	Cs-137	3.19E+10	2.01E+10		
SX102	Cs137	10/21/75	T-9049	1.48	3.19E+06	uCi/gal	O		RAW	Cs137	3.12E+10	2.00E+10		
C106	Cs-137	10/10/74	RAT-C106-1		862000	uCi/l	G	Sludge	Braun	Cs-137	3.19E+10	2.00E+10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
TX118	Cs137	10/10/74			8.62E+05	uCi/L	G	sludge	RAW	Cs137	3.19E+10	2.00E+10		
S111	Cs137	10/1/74			8.60E-01	Cl/L	G	sludge	RAW	Cs137	3.18E+10	2.00E+10		
A105	Cs137	10/22/74			8.10E+05	uCi/L	G	sludge	RAW	Cs137	3.00E+10	1.88E+10		
S102	Cs137	11/26/74		1.9	7.98E+05	uCi/L	G	Sludge(Bottom)	RAW	Cs137	2.95E+10	1.86E+10		
A102	Cs137	10/16/81			4.25E+02	uCi/g	S	H2O soluble	RAW	Cs137	2.52E+10	1.86E+10		
A102	Cs137	12/16/74	T-8141	1.7953	2.93E+06	uCi/gal	O		RAW	Cs137	2.86E+10	1.81E+10		
AX101	Cs137	1/12/75					G	Sludge	Wastren	Cs137	2.85E+10	1.80E+10		
AX101	Cs137	6/20/75			2.88E+06	uCi/gal	S	Solid undetermined	RAW	Cs137	2.81E+10	1.80E+10		
C105	Cs137	11/1/76	5693		7.30E-01	Cl/L	G	sludge	RAW	Cs137	2.70E+10	1.78E+10		
A103	Cs137	11/1/76	7279		7.30E-01	Cl/L	G	sludge	RAW	Cs137	2.70E+10	1.78E+10		
A102	Cs-137	8/1/76	5693		0.73	Cl/l	G	Sludge	Braun	Cs-137	2.70E+10	1.77E+10		
A102	Cs-137	8/1/76	7279		0.73	Cl/l	G	Sludge	Braun	Cs-137	2.70E+10	1.77E+10		
A103	Cs137	11/11/80		1.36	6.60E-01	Cl/L	O	Other	RAW	Cs137	2.44E+10	1.76E+10		
C112	Cs137	11/11/80		1.39	6.56E-01	Cl/L	O	Other	RAW	Cs137	2.43E+10	1.75E+10		
C106	Cs137	4/1/77		1.47	7.03E+05	uCi/L	G	sludge	RAW	Cs137	2.60E+10	1.73E+10		
C105	Cs-137	2/1/77	RAT-C105-3	1.47	703000	uCi/l	G	Sludge	Braun	Cs-137	2.60E+10	1.72E+10		
C106	Cs137	11/13/72		1.175	6.55E-04	Cl/g	S	finest- solid	RAW	Cs137	2.85E+10	1.71E+10		
A103	Cs-137	1/24/77	T-90		0.69	Cl/l	G	Sludge	Braun	Cs-137	2.55E+10	1.69E+10		
B101	Cs137	1/24/77	90		6.90E-01	Cl/L	G	sludge	RAW	Cs137	2.55E+10	1.69E+10		
A105	Cs-137	1/12/72	RAT-A105-1A	1.54	500	uCi/gm	S	Solids	Braun	Cs-137	2.85E+10	1.68E+10		
A106	Cs-137	10/5/77	JS-30	1.51	670000	uCi/l	G	Sludge	Braun	Cs-137	2.48E+10	1.67E+10		
B101	Cs137	3/1/92	B08DM6	1.5	3.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.75E+10	1.64E+10		
A101	Cs137	5/1/87	3		3.30E+05	uCi/kg	S		RAW	Cs137	1.95E+10	1.64E+10		
A101	Cs-137	11/11/80	RAT-A101-8		600000	uCi/l	R	Slurry	Braun	Cs-137	2.22E+10	1.60E+10		
U110	Cs137	5/19/86			3.30E+02	uCi/g	S	Core, solid	RAW	Cs137	1.95E+10	1.60E+10		
S101	Cs137	1/5/76					G	Sludge	Wastren	Cs137	2.48E+10	1.60E+10		
B101	Cs-137	1/5/76	RAT-B101-1	1.59	0.67	Cl/l	G	Sludge	Braun	Cs-137	2.48E+10	1.60E+10		
C109	Cs137	1/5/76		1.59	6.70E-01	Cl/L	G	sludge	RAW	Cs137	2.48E+10	1.60E+10		
A101	Cs-137	11/11/80	RAT-A101-5A	1.85	595000	uCi/l	R	Slurry	Braun	Cs-137	2.20E+10	1.59E+10		
C112	Cs137	11/11/80		1.85	5.95E+05	uCi/L	R	slurry -4 ft sample	RAW	Cs137	2.20E+10	1.59E+10		
C106	Cs137	12/1/89		1.48	3.24E+02	uCi/g	I	PRIMARY	TCD	Cs137	1.77E+10	1.58E+10		
S101	Cs-137	11/19/75	T-9715	1.51	2440000	uCi/gal	G	Sludge	Braun	Cs-137	2.38E+10	1.54E+10		
A103	Cs137	11/19/75	9715	1.51	2.44E+06	uCi/gal	S	Suspended Solids	RAW	Cs137	2.38E+10	1.54E+10		
C106	Cs137	9/1/92	B08T15	1.2	3.57E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.59E+10	1.50E+10		
A101	Cs137	3/1/92	B08DN6	1.3	3.28E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.58E+10	1.48E+10		
TX103	Cs137	4/14/87		1.43	3.30E+02	uCi/g	S	solid	RAW	Cs137	1.75E+10	1.48E+10		
A103	Cs-137	1/24/77	T-89		0.59	Cl/l	G	Sludge	Braun	Cs-137	2.18E+10	1.44E+10		
SX106	Cs137	1/24/77	89		5.90E-01	Cl/L	G	sludge	RAW	Cs137	2.18E+10	1.44E+10		
S102	Cs137	5/19/86					G	sludge	Wastren	Cs137	1.75E+10	1.44E+10		
SX-106	Cs137				0.3821	Cl/L	S		HTCE Inv.	Cs137		1.41E+10		
TX118	Cs-137	7/24/73	T-7349	1.43	2360000	uCi/gal	R	Slurry	Braun	Cs-137	2.31E+10	1.41E+10		
TX109	Cs-137	11/24/75	T-89	1.39	0.59	Cl/l	G	Sludge	Braun	Cs-137	2.18E+10	1.41E+10		
S-102	Cs137				0.3780	Cl/L	S		HTCE Inv.	Cs137		1.40E+10		
S-103	Cs137				0.3776	Cl/L	S		HTCE Inv.	Cs137		1.40E+10		
A101	Cs-137	11/10/80	RAT-A101-6		520000	uCi/l	R	Slurry	Braun	Cs-137	1.92E+10	1.39E+10		
A101	Cs-137	11/10/80	RAT-A101-4A	1.65	519000	uCi/l	R	Slurry	Braun	Cs-137	1.92E+10	1.39E+10		
C109	Cs137	11/10/80		1.65	5.19E+05	uCi/L	R	slurry - 4 ft sample	RAW	Cs137	1.92E+10	1.39E+10		
A105	Cs137	1/21/75	T-1137	1.5359	2.23E+06	uCi/gal	G	SLUDGE	RAW	Cs137	2.18E+10	1.38E+10		
TX103	Cs-137	1/2/75	T-1137	1.5359	2230000	uCi/gal	S	Supernate/Solids	Braun	Cs-137	2.18E+10	1.38E+10		
S-105	Cs137				0.3696	Cl/L	S		HTCE Inv.	Cs137		1.37E+10		
SX104	Cs-137	12/5/75	T-375	1.49	2170000	uCi/gal	S	Solids	Braun	Cs-137	2.12E+10	1.37E+10		
S-108	Cs137				0.3689	Cl/L	S		HTCE Inv.	Cs137		1.36E+10		
TX118	Cs137	3/31/77		1.6	5.55E+05	uCi/L	S	Solids	RAW	Cs137	2.05E+10	1.36E+10		
S102	Cs137	12/28/75	T-1018	1.4	2.16E+06	uCi/gal	D	suspended solids	RAW	Cs137	2.11E+10	1.36E+10		
SX106	Cs-137	2/28/77	RAT-SX106-2	1.45	555000	uCi/l	S	Supernate/Solids	Braun	Cs-137	2.05E+10	1.36E+10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
SX106	Cs-137	2/28/77	RAT-SX106-2	1.58	555000	uCi/l	S	Supernate/Solids	Braun	Cs-137	2.05E+10	1.36E+10		
SX106	Cs-137	2/28/77	RAT-SX106-2	1.6	555000	uCi/l	S	Supernate/Solids	Braun	Cs-137	2.05E+10	1.36E+10		
BY-103	Cs137				0.3680	ci/L	S		HTCE Inv.	Cs137		1.36E+10		
S-112	Cs137				0.3680	ci/L	S		HTCE Inv.	Cs137		1.36E+10		
T106	Cs137	7/1/77	5	2.44	2.23E+05	uCi/kg	O		RAW	Cs137	2.02E+10	1.35E+10		
S-109	Cs137				0.3625	ci/L	S		HTCE Inv.	Cs137		1.34E+10		
U103	Cs-137	8/15/77	8793		540000	uCi/l	A	Salts	Braun	Cs-137	2.00E+10	1.34E+10		
AX102	Cs137	8/15/77	8793		5.40E+05	uCi/L	A	SALT	RAW	Cs137	2.00E+10	1.34E+10		
C106	Cs-137	1/24/77	RAT-C106-3	2.44	545000	uCi/l	G	Sludge	Braun	Cs-137	2.02E+10	1.33E+10		
TX118	Cs137	1/24/77		2.44	5.45E+05	uCi/L	G	sludge	RAW	Cs137	2.02E+10	1.33E+10		
SX102	Cs137	9/1/92	B08T15	1.2	3.17E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.41E+10	1.33E+10		
S102	Cs137	1/12/72		1.22	5.00E+02	uCi/g	S	solids, dry	RAW	Cs137	2.26E+10	1.33E+10		
BY-112	Cs137				0.3569	ci/L	S		HTCE Inv.	Cs137		1.32E+10		
BY-102	Cs137				0.3561	ci/L	S		HTCE Inv.	Cs137		1.32E+10		
BY-111	Cs137				0.3554	ci/L	S		HTCE Inv.	Cs137		1.31E+10		
SX105	Cs-137	12/12/75	T-377	1.5	2080000	uCi/gal	S	Solids	Braun	Cs-137	2.03E+10	1.31E+10		
S102	Cs137	4/17/74	T-3370	1.5	2.16E+06	uCi/gal	O		RAW	Cs137	2.11E+10	1.31E+10		
U-108	Cs137				0.3527	ci/L	S		HTCE Inv.	Cs137		1.30E+10		
U-111	Cs137				0.3523	ci/L	S		HTCE Inv.	Cs137		1.30E+10		
S-106	Cs137				0.3491	ci/L	S		HTCE Inv.	Cs137		1.29E+10		
U-103	Cs137				0.3489	ci/L	S		HTCE Inv.	Cs137		1.29E+10		
S102	Cs137	6/13/75			2.06E+06	uCi/gal	S	Solid unknow	RAW	Cs137	2.01E+10	1.28E+10		
BY-109	Cs137				0.3447	ci/L	S		HTCE Inv.	Cs137		1.28E+10		
SX-105	Cs137				0.3436	ci/L	S		HTCE Inv.	Cs137		1.27E+10		
B111	Cs137	4/19/73	T-6683	1.4038	2.14E+06	uCi/gal	O		RAW	Cs137	2.09E+10	1.27E+10		
U105	Cs137	11/11/75	T-9697	1.42	2.01E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.96E+10	1.26E+10		
BY-101	Cs137				0.3408	ci/L	S		HTCE Inv.	Cs137		1.26E+10		
S102	Cs-137	10/15/75	T-8864	1.436	2000000	uCi/gal	G	Sludge	Braun	Cs-137	1.95E+10	1.26E+10		
TX118	Cs137	10/15/75	T-8864	1.436	2.00E+06	uCi/gal	O		RAW	Cs137	1.95E+10	1.26E+10		
SX-102	Cs137				0.3382	ci/L	S		HTCE Inv.	Cs137		1.25E+10		
U-109	Cs137				0.3368	ci/L	S		HTCE Inv.	Cs137		1.25E+10		
S102	Cs137	4/22/75		1.29	5.27E+05	uCi/L	G	SLUDGE	RAW	Cs137	1.95E+10	1.24E+10		
TX118	Cs-137	1/15/73	T-4966	1.355	2100000	uCi/gal	G	Sludge	Braun	Cs-137	2.05E+10	1.24E+10		
BY-106	Cs137				0.3345	ci/L	S		HTCE Inv.	Cs137		1.24E+10		
U103	Cs137	2/27/75					G	Sludge	Wastren	Cs137	1.95E+10	1.24E+10		
T106	Cs-137	2/27/75	RAT-T106-1	1.29	527000	uCi/l	G	Sludge	Braun	Cs-137	1.95E+10	1.24E+10		
S102	Cs137	12/17/74	T-8042	1.536	2.00E+06	uCi/gal	O		RAW	Cs137	1.95E+10	1.23E+10		
TX118	Cs137	7/20/77	3040		4.90E+05	uCi/L	G	sludge	RAW	Cs137	1.81E+10	1.21E+10		
A-102	Cs137				0.3276	ci/L	S		HTCE Inv.	Cs137		1.21E+10		
TX118	Cs-137	1/30/73	T-5256	1.36	2050000	uCi/gal	G	Sludge	Braun	Cs-137	2.00E+10	1.21E+10		
U105	Cs137	1/30/73	T-5256	1.359	2.05E+06	uCi/gal	O		RAW	Cs137	2.00E+10	1.21E+10		
TX118	Cs137	9/3/80					K	Saltcake	Wastren	Cs137	1.68E+10	1.21E+10		
SX102	Cs-137	9/3/80	T-2959	1.555	454000	uCi/l	S	Supernate/Solids	Braun	Cs-137	1.68E+10	1.21E+10		
C106	Cs137	1/5/76	T-1193	1.4	1.91E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.87E+10	1.21E+10		
U-106	Cs137				0.3256	ci/L	S		HTCE Inv.	Cs137		1.20E+10		
TX118	Cs-137	11/20/72	T-3775	1.44	2050000	uCi/gal	G	Sludge	Braun	Cs-137	2.00E+10	1.20E+10		
S-111	Cs137				0.3235	ci/L	S		HTCE Inv.	Cs137		1.20E+10		
A106	Cs-137	10/5/77	JS-31	1.51	480000	uCi/l	G	Sludge	Braun	Cs-137	1.78E+10	1.19E+10		
B111	Cs137	7/20/77	4095		4.80E+05	uCi/L	G	sludge	RAW	Cs137	1.78E+10	1.19E+10		
BX-111	Cs137				0.3195	ci/L	S		HTCE Inv.	Cs137		1.18E+10		
A-101	Cs137				0.3190	ci/L	S		HTCE Inv.	Cs137		1.18E+10		
SX-103	Cs137				0.3171	ci/L	S		HTCE Inv.	Cs137		1.17E+10		
TX102	Cs-137	2/3/81	RAT-TX102-1	1.446	428000	uCi/l	S	Supernate/Solids	Braun	Cs-137	1.58E+10	1.15E+10		
B111	Cs137	2/3/81					G	Sludge	Wastren	Cs137	1.58E+10	1.15E+10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Cs137	11/5/75	T-9515	1.41	1.82E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.78E+10	1.14E+10	
U-107	Cs137				0.3025	Ci/L	S		HTCE Inv.	Cs137		1.12E+10	
A-106	Cs137				0.3008	Ci/L	S		HTCE Inv.	Cs137		1.11E+10	
S102	Cs-137	10/21/74	T-7805	1.5311	1810000	uCi/gal	G	Sludge	Braun	Cs-137	1.77E+10	1.11E+10	
SX103	Cs137	10/21/74	T-7805	1.5311	1.81E+06	uCi/gal	O		RAW	Cs137	1.77E+10	1.11E+10	
S102	Cs137	11/4/74	T-7582	1.4345	1.80E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.78E+10	1.11E+10	
TX118	Cs137	11/26/74	T-9706	1.5142	1.79E+06	uCi/gal	O		RAW	Cs137	1.75E+10	1.10E+10	
S102	Cs137	12/9/74	T-8122	1.5909	1.75E+06	uCi/gal	O		RAW	Cs137	1.71E+10	1.08E+10	
S111	Cs137	2/3/75	1.4224	1.4224	1.73E+06	uCi/gal	O		RAW	Cs137	1.69E+10	1.07E+10	
S111	Cs137	1/1/75	T-1299	1.4224	1.73E+06	uCi/gal	O		RAW	Cs137	1.69E+10	1.07E+10	
TX118	Cs-137	2/11/74	T-1944	1.47	466000	uCi/l	G	Sludge	Braun	Cs-137	1.72E+10	1.07E+10	
BY-105	Cs137				0.2878	Ci/L	S		HTCE Inv.	Cs137		1.06E+10	
U103	Cs137	7/1/75			4.50E-01	Ci/L	G	sludge	RAW	Cs137	1.67E+10	1.06E+10	
TX118	Cs-137	5/23/74	T-4333	1.53	1740000	uCi/gal	G	Sludge	Braun	Cs-137	1.70E+10	1.06E+10	
TX118	Cs-137	2/27/74	T-2608	1.48	462000	uCi/l	G	Sludge	Braun	Cs-137	1.71E+10	1.06E+10	
SX-104	Cs137				0.2848	Ci/L	S		HTCE Inv.	Cs137		1.05E+10	
BY104	Cs-137	2/6/76	RAT-BY104-1	1.61	440000	uCi/l	G	Sludge	Braun	Cs-137	1.63E+10	1.05E+10	
U105	Cs-137	10/6/77	968		420000	uCi/l	S	Solids	Braun	Cs-137	1.55E+10	1.05E+10	
A103	Cs137	10/6/77	968		4.20E+05	uCi/l	S	solids	RAW	Cs137	1.55E+10	1.05E+10	
U105	Cs-137	12/4/78	RAT-U105-3	1.62	252.2	uCi/gm	A	Salts	Braun	Cs-137	1.51E+10	1.04E+10	
A103	Cs137	10/1/91	B08XC1	1.6	1.90E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.12E+10	1.04E+10	
A103	Cs137	12/14/78					K	Saltcake	Wastren	Cs137	1.51E+10	1.04E+10	
S-110	Cs137				0.2803	Ci/L	S		HTCE Inv.	Cs137		1.04E+10	
U-105	Cs137				0.2799	Ci/L	S		HTCE Inv.	Cs137		1.04E+10	
AX102	Cs137	8/21/74		1.414	4.47E+05	uCi/L	G	sludge	RAW	Cs137	1.65E+10	1.04E+10	
BY-104	Cs137				0.2777	Ci/L	S		HTCE Inv.	Cs137		1.03E+10	
TX118	Cs-137	12/30/72	T-4638	1.43	1740000	uCi/gal	G	Sludge	Braun	Cs-137	1.70E+10	1.02E+10	
B111	Cs137	12/30/72	T-4638	1.432	1.74E+06	uCi/gal	O		RAW	Cs137	1.70E+10	1.02E+10	
TY104	Cs137	4/9/76	T-4138	1.43	1.61E+06	uCi/gal	D	Suspended Solids	RAW	Cs137	1.57E+10	1.02E+10	
A-104	Cs137				0.2755	Ci/L	S		HTCE Inv.	Cs137		1.02E+10	
TY104	Cs137	3/31/77		1.58	4.14E+05	uCi/L	G	SLUDGE	RAW	Cs137	1.53E+10	1.02E+10	
B111	Cs137	4/4/75	T-3328	1.34	1.64E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.60E+10	1.02E+10	
SX106	Cs-137	2/28/77	RAT-SX106-2	1.45	414000	uCi/l	G	Sludge	Braun	Cs-137	1.53E+10	1.02E+10	
SX106	Cs-137	2/28/77	RAT-SX106-2	1.58	414000	uCi/l	G	Sludge	Braun	Cs-137	1.53E+10	1.02E+10	
SX106	Cs-137	2/28/77	RAT-SX106-2	1.6	414000	uCi/l	G	Sludge	Braun	Cs-137	1.53E+10	1.02E+10	
TX118	Cs-137	2/26/74	T-2453	1.49	442000	uCi/l	G	Sludge	Braun	Cs-137	1.64E+10	1.01E+10	
A102	Cs137	1/5/88	A1XCXXXX	1.56	2.03E+02	uCi/g	I	core composite	RAW	Cs137	1.17E+10	9.98E+09	
B111	Cs137	8/15/77	8793		4.00E+05	uCi/L	A	SALT	RAW	Cs137	1.48E+10	9.92E+09	
C106	Cs137	1/20/78	T-1683	1.39	1.56E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.52E+10	9.86E+09	
B111	Cs-137	4/15/93	93-4312H1		173	uCi/gm	G	Sludge	Braun	Cs-137	1.02E+10	9.85E+09	
U109	Cs-137	11/12/75	RAT-U109-1	1.24	325.5	uCi/gm	G	Sludge	Braun	Cs-137	1.49E+10	9.61E+09	
A106	Cs-137	3/11/86	A1XCOOXX	1.56	203	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.17E+10	9.57E+09	
S106	Cs137	2/24/75	T-2264		1.54E+06	uCi/gal	D	Suspended Solids	RAW	Cs137	1.51E+10	9.53E+09	
S106	Cs137	10/1/91	B08XC0	1.6	1.73E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.02E+10	9.50E+09	
TX103	Cs-137	1/21/74	T-817		408000	uCi/l	G	Sludge	Braun	Cs-137	1.51E+10	9.32E+09	
A101	Cs137	12/4/78		1.62	2.23E+02	uCi/g	S	Solid(water soluble)	RAW	Cs137	1.34E+10	9.24E+09	
BX107	Cs137	6/6/75	T-5179	1.18	1.48E+06	uCi/gal	D	Suspended Solids	RAW	Cs137	1.45E+10	9.22E+09	
B111	Cs-137	3/8/93	91-10553H-1T		160	uCi/gm	G	Sludge	Braun	Cs-137	9.47E+09	9.08E+09	
S102	Cs137	9/1/80	4		2.13E+05	uCi/kg	O		RAW	Cs137	1.26E+10	9.07E+09	
B111	Cs137	10/1/91	B08XC1	1.6	1.64E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.71E+09	9.01E+09	
TY104	Cs-137	9/18/80	RAT-TY104-2	1.57	215	uCi/gm	G	Sludge	Braun	Cs-137	1.25E+10	8.99E+09	
AX-101	Cs137				0.2426	Ci/L	S		HTCE Inv.	Cs137		8.97E+09	
B111	Cs137	1/7/76	T-1330	1.38	1.42E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.39E+10	8.97E+09	
SX102	Cs137	10/1/91	B08XB3	1.6	1.63E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.65E+09	8.95E+09	
SX102	Cs137	10/1/91	B08XC0	1.6	1.62E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.59E+09	8.90E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed				
B111	Cs137	10/1/91	B08XB3	1.6	1.62E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.59E+09	8.90E+09				
BY-107	Cs137				0.2402	Ci/L	S		HTCE Inv.	Cs137		8.89E+09				
B111	Cs137	12/16/74	T-8035	1.5414	1.44E+06	uCi/gal	O		RAW	Cs137	1.41E+10	8.87E+09				
C105	Cs137	10/1/91	B08XB3	1.6	1.61E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.53E+09	8.84E+09				
S101	Cs137	5/29/75	T-4900	1.2	1.42E+06	uCi/gal	D	Suspended Solids	RAW	Cs137	1.39E+10	8.84E+09				
C105	Cs137	10/1/91	B08XB3	1.6	1.60E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.47E+09	8.79E+09				
BX104	Cs137	3/1/92	B08DM6	1.5	1.69E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.38E+09	8.79E+09				
BY112	Cs137	10/10/77					G	Sludge	Wastron	Cs137	1.30E+10	8.75E+09				
SX103	Cs-137	10/10/77	1104	1.5	350000	uCi/l	S	Solids	Braun	Cs-137	1.30E+10	8.71E+09				
SX103	Cs-137	10/10/77	1104	2	350000	uCi/l	S	Solids	Braun	Cs-137	1.30E+10	8.71E+09				
BY-110	Cs137				0.2347	Ci/L	S		HTCE Inv.	Cs137		8.68E+09				
C104	Cs137	12/6/74	T-423	1.4272	1.40E+06	uCi/gal	O		RAW	Cs137	1.37E+10	8.62E+09				
S111	Cs-137	8/25/78	1003/1004-C	1.86	182.4	uCi/gm	S	Solids	Braun	Cs-137	1.26E+10	8.62E+09				
TX118	Cs-137	4/12/74	T-3392	1.44	1420000	uCi/gal	G	Sludge	Braun	Cs-137	1.39E+10	8.61E+09				
A101	Cs137	4/12/74	T-3392	1.4381	1.42E+06	uCi/gal	O		RAW	Cs137	1.39E+10	8.61E+09				
B111	Cs137	12/17/74	T-8008	1.4202	1.38E+06	uCi/gal	O		RAW	Cs137	1.35E+10	8.50E+09				
U105	Cs137	8/25/78	1003-C and 1004-C	1.86	1.80E+02	uCi/g	S	Water soluble	RAW	Cs137	1.24E+10	8.50E+09				
A101	Cs137	8/25/78	1003-1004-C	1.86	1.80E+02	uCi/g	S	water soluble	RAW	Cs137	1.24E+10	8.50E+09				
B111	Cs137	7/9/75	T-5964	1.35	1.36E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.33E+10	8.49E+09				
B111	Cs137	12/10/77	3665	1.547	1.28E+06	uCi/gal	S	granular crystal	RAW	Cs137	1.25E+10	8.45E+09				
S102	Cs137	4/30/76	4365		3.50E-01	Ci/L	G	sludge	RAW	Cs137	1.30E+10	8.43E+09				
C109	Cs137	3/3/87	B2XCXXXX	1.35	2.01E+02	uCi/g	I	Core composite	RAW	Cs137	1.00E+10	8.38E+09				
SX105	Cs137	2/24/87	B1XCXXXX	1.34	2.02E+02	uCi/g	I	solid-core composite	RAW	Cs137	1.00E+10	8.36E+09				
A103	Cs-137	4/3/86	B2XCOOXX	1.35	201	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.00E+10	8.21E+09				
A103	Cs-137	3/26/86	B1XCOOXX	1.34	202	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.00E+10	8.19E+09				
SX105	Cs137	4/3/86					K	Saltcake	Wastron	Cs137	1.00E+10	8.18E+09				
S102	Cs-137	7/7/75	T-5859	1.37	1310000	uCi/gal	G	Sludge	Braun	Cs-137	1.28E+10	8.18E+09				
A102	Cs137	7/7/75	T-5859	1.37	1.31E+06	uCi/gal	O		RAW	Cs137	1.28E+10	8.18E+09				
TX118	Cs137	11/12/75					G	Sludge	Wastron	Cs137	1.27E+10	8.18E+09				
C112	Cs137	7/20/77	2		3.30E+05	uCi/L	G	sludge	RAW	Cs137	1.22E+10	8.17E+09				
U109	Cs-137	11/12/75	RAT-U109-1	1.05	325.5	uCi/gm	G	Sludge	Braun	Cs-137	1.26E+10	8.14E+09				
U105	Cs137	11/12/75		1.05	3.26E+02	uCi/g	G	SLUDGE	RAW	Cs137	1.26E+10	8.14E+09				
B111	Cs-137	4/15/93	93-4316H1		143	uCi/gm	G	Sludge	Braun	Cs-137	8.47E+09	8.14E+09				
T107	Cs137	10/1/91	B08XC3	1.6	1.48E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.76E+09	8.13E+09				
U103	Cs137	9/18/80		1.41	2.15E+02	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	1.12E+10	8.07E+09				
U103	Cs137	10/1/91	B08XC2	1.6	1.44E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.52E+09	7.91E+09				
C112	Cs137	9/18/80		1.41	2.10E+02	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	1.10E+10	7.89E+09				
T107	Cs137	10/1/91	B08XC2	1.6	1.43E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.47E+09	7.86E+09				
SX114	Cs137				0.2119	Ci/L	S		HTCE Inv.	Cs137		7.84E+09				
A102	Cs137	2/24/87	91XCXXXX	1.52	1.67E+02	uCi/g	I	core composite	RAW	Cs137	9.39E+09	7.84E+09				
B111	Cs-137	3/8/93	92-04054H-1T		138	uCi/gm	G	Sludge	Braun	Cs-137	8.17E+09	7.84E+09				
S-101	Cs137				0.2111	Ci/L	S		HTCE Inv.	Cs137		7.81E+09				
BY112	Cs137	10/1/91	B08XC3	1.6	1.42E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.41E+09	7.80E+09				
T107	Cs137	9/18/80		1.365	2.13E+02	uCi/g	I	H2O insoluble	RAW	Cs137	1.08E+10	7.74E+09				
A102	Cs-137	3/6/86	91XCOOXX	1.52	167	uCi/gm	I	Sludge/Composite	Braun	Cs-137	9.39E+09	7.67E+09				
SX103	Cs137	6/4/75					G	Sludge	Wastron	Cs137	1.18E+10	7.52E+09				
S106	Cs-137	6/4/75	RAT-S106-2	1.59	200	uCi/gm	S	Solids	Braun	Cs-137	1.18E+10	7.50E+09				
T107	Cs137	6/4/75		1.59	2.00E+02	uCi/g	S	Salt solids	RAW	Cs137	1.18E+10	7.50E+09				
A102	Cs137	4/30/76	4355		3.10E-01	Ci/L	G	sludge	RAW	Cs137	1.15E+10	7.46E+09				
B-112	Cs137				0.2009	Ci/L	S		HTCE Inv.	Cs137		7.43E+09				
A101	Cs137	5/2/79	1	1.42	2.01E+05	uCi/kg	I	Core Segment	RAW	Cs137	1.08E+10	7.36E+09				
TY105	Cs137	4/2/75	T-3259	1.24	1.18E+06	uCi/gal	D	suspended solids	RAW	Cs137	1.15E+10	7.32E+09				
SX101	Cs137	10/1/91	B08XB3	1.3	1.63E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.84E+09	7.28E+09				
SX101	Cs137	8/22/80	T-2691	1.2814	2.73E+05	uCi/L	O	Other	RAW	Cs137	1.01E+10	7.26E+09				
SX102	Cs137	10/1/91	B08XB3	1.3	1.62E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.79E+09	7.23E+09				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
SX111	Cs137	5/25/75		1.88	1.63E+02	uCi/g	S	SOLIDS	RAW	Cs137	1.13E+10	7.22E+09		
SX111	Cs137	4/18/75		1.88	1.63E+02	uCi/g	S	Solid	RAW	Cs137	1.13E+10	7.20E+09		
C109	Cs137	10/1/91	B08XB3	1.3	1.61E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.74E+09	7.19E+09		
SX111	Cs137	11/12/92					K	Saltcake	Wastren	Cs137	7.51E+09	7.15E+09		
TX103	Cs137	10/1/91	B08XB3	1.3	1.60E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.70E+09	7.14E+09		
B111	Cs-137	3/8/93	92-04062H-1T		125	uCi/gm	G	Sludge	Braun	Cs-137	7.40E+09	7.10E+09		
TX101	Cs137	5/8/87	C1XCXXXX	1.55	1.47E+02	uCi/g	I	Core composite	RAW	Cs137	8.43E+09	7.07E+09		
S101	Cs-137	6/4/75	RAT-S101-1	1.52	295000	uCi/l	G	Sludge	Braun	Cs-137	1.09E+10	6.96E+09		
BY112	Cs137	6/4/75		1.52	2.95E+05	uCi/l	S	Soft mud	RAW	Cs137	1.09E+10	6.96E+09		
BX105	Cs-137	2/11/76	T-2325	1.369	1090000	uCi/gal	G	Sludge	Braun	Cs-137	1.07E+10	6.90E+09		
C105	Cs-137	4/11/86	C1XCOOXX	1.55	147	uCi/gm	I	Sludge/Composite	Braun	Cs-137	8.43E+09	6.90E+09		
BY112	Cs137	4/11/86					G	sludge	Wastren	Cs137	8.43E+09	6.90E+09		
S110	Cs137	1/21/88	72XC00XX	1.76	1.24E+02	uCi/g	I	Core Composite	RAW	Cs137	8.07E+09	6.88E+09		
S110	Cs137	5/29/71			3.17E+05	uCi/L	G	Sludge	RAW	Cs137	1.17E+10	6.81E+09		
SX-110	Cs137				0.1812	Ci/L	S		HTCE Inv.	Cs137		6.70E+09		
BY104	Cs-137	11/12/92	R-1773		115.6	uCi/gm	T	Crust	Braun	Cs-137	6.84E+09	6.52E+09		
BY-108	Cs137				0.1758	Ci/L	S		HTCE Inv.	Cs137		6.50E+09		
SX101	Cs-137	12/4/78	4523	1.76	144.6	uCi/gm	A	Salts	Braun	Cs-137	9.42E+09	6.50E+09		
TX103	Cs137	10/1/91	B08XB7	1.3	1.45E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.97E+09	6.47E+09		
C104	Cs-137	8/23/77	9172-A		260000	uCi/l	G	Sludge	Braun	Cs-137	9.62E+09	6.45E+09		
TX101	Cs137	8/23/77	9172		2.60E+05	uCi/l	G	sludge	RAW	Cs137	9.62E+09	6.45E+09		
A101	Cs-137	4/1/76	3901	1.36	268000	uCi/l	G	Sludge	Braun	Cs-137	9.92E+09	6.44E+09		
S102	Cs137	4/1/76	3901		2.68E+05	uCi/L	G	sludge	RAW	Cs137	9.92E+09	6.44E+09		
SX-109	Cs137				0.1739	Ci/L	S		HTCE Inv.	Cs137		6.43E+09		
S111	Cs137	10/1/91	B08XB7	1.3	1.42E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	6.83E+09	6.34E+09		
U105	Cs-137	3/14/77	RAT-U105-2	1.72	258000	uCi/l	G	Sludge	Braun	Cs-137	9.55E+09	6.34E+09		
A106	Cs137	3/14/77		1.72	2.58E+05	uCi/L	G	SLUDGE	RAW	Cs137	9.55E+09	6.34E+09		
BX104	Cs-137	2/26/86	72XCOOXX	1.673	124	uCi/gm	I	Sludge/Composite	Braun	Cs-137	7.68E+09	6.26E+09		
S102	Cs137	4/30/76	45555		2.60E-01	Ci/L	G	sludge	RAW	Cs137	9.62E+09	6.26E+09		
SX106	Cs-137	4/18/78	8301	1.37	180.6	uCi/gm	S	Supernate/Solids	Braun	Cs-137	9.15E+09	6.23E+09		
BX104	Cs137	10/1/91	B08XB7	1.3	1.39E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	6.69E+09	6.20E+09		
BX107	Cs137	10/1/91	B08XB7	1.3	1.38E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.64E+09	6.16E+09		
B111	Cs137	11/19/75	T-9952	1.29	9.69E+05	uCi/gal	D	suspended solids	RAW	Cs137	9.47E+09	6.10E+09		
B111	Cs137	9/1/92	B08T17	1.2	1.44E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	6.39E+09	6.08E+09		
SX106	Cs-137	4/18/78	8301	1.33	180.6	uCi/gm	S	Supernate/Solids	Braun	Cs-137	8.89E+09	6.05E+09		
SX105	Cs-137	2/1/77	RAT-SX105-2	1.06	227	uCi/gm	A	Salts	Braun	Cs-137	8.90E+09	5.90E+09		
S110	Cs137	2/1/77		1.06	2.27E+02	uCi/g	K	SALT CAKE	RAW	Cs137	8.90E+09	5.90E+09		
B111	Cs137	2/1/77					K	Saltcake	Wastren	Cs137	8.90E+09	5.89E+09		
B111	Cs137	1/5/88	92XCXXXX	1.66	1.12E+02	uCi/g	I	core composite	RAW	Cs137	6.88E+09	5.86E+09		
SX102	Cs137	4/23/75	T-3262	1.24	9.38E+05	uCi/gal	D	Suspended Solids	RAW	Cs137	9.17E+09	5.83E+09		
A106	Cs137	3/1/92	B08DN8	1.6	1.05E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.22E+09	5.82E+09		
C-111	Cs137				0.1572	Ci/L	S		HTCE Inv.	Cs137		5.82E+09		
S-107	Cs137				0.1570	Ci/L	S		HTCE Inv.	Cs137		5.81E+09		
SX-115	Cs137				0.1548	Ci/L	S		HTCE Inv.	Cs137		5.73E+09		
U105	Cs-137	3/9/76	RAT-U105-1	1.52	237000	uCi/l	G	Sludge	Braun	Cs-137	8.77E+09	5.69E+09		
S111	Cs137	3/9/76		1.52	2.37E+05	uCi/L	G	SLUDGE	RAW	Cs137	8.77E+09	5.69E+09		
S111	Cs137	3/1/93	B08V39	1.57	1.02E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.93E+09	5.68E+09		
U103	Cs-137	12/4/78	3064	1.4	157.195	uCi/gm	S	Solids	Braun	Cs-137	8.14E+09	5.62E+09		
S104	Cs137	12/4/78	3064	1.4	1.57E+02	uCi/g	S	Water soluble	RAW	Cs137	8.13E+09	5.62E+09		
SX101	Cs-137	12/4/78	4523	1.52	144.6	uCi/gm	A	Salts	Braun	Cs-137	8.13E+09	5.62E+09		
S104	Cs137	12/4/78					G	Sludge	Wastren	Cs137	8.13E+09	5.62E+09		
A102	Cs-137	3/8/86	92XCOOXX	1.66	112	uCi/gm	I	Sludge/Composite	Braun	Cs-137	6.88E+09	5.62E+09		
S104	Cs137	3/1/92	B08DN8	1.6	9.99E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.91E+09	5.54E+09		
S104	Cs137	3/1/93	B08V39	1.57	9.77E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.68E+09	5.44E+09		
S104	Cs137	4/18/78		1.33	1.62E+02	uCi/g	S	Solids(Water Soluble)	RAW	Cs137	7.97E+09	5.43E+09		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
S104	Cs137	7/17/80	T-1244		2.04E+05	uCi/L	I	liquid-4 ft. sample	RAW	Cs137	7.55E+09	5.41E+09			
S104	Cs137	6/10/75		1.53	2.29E+05	uCi/L	G	SLUDGE	RAW	Cs137	8.47E+09	5.40E+09			
S104	Cs137	5/29/71			2.51E+05	uCi/L	T	Crust	RAW	Cs137	9.29E+09	5.40E+09			
T105	Cs137	3/1/93	B08V39	1.57	9.67E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.62E+09	5.39E+09			
SX103	Cs-137	4/11/75	RAT-SX103-1A	1.53	229000	uCi/L	G	Sludge	Braun	Cs-137	8.47E+09	5.38E+09			
S104	Cs137	4/11/75		1.53	2.29E+05	uCi/L	G	SLUDGE	RAW	Cs137	8.47E+09	5.38E+09			
S104	Cs137	3/1/93	B08V39	1.57	9.62E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.59E+09	5.36E+09			
SX-101	Cs137				0.1442	Ci/L	S		HTCE Inv.	Cs137		5.34E+09			
C106	Cs137	7/17/80	T-1245		2.00E+05	uCi/L	I	Composite	RAW	Cs137	7.40E+09	5.31E+09			
S104	Cs137	4/30/76	3901		2.20E-01	Ci/L	G	sludge	RAW	Cs137	8.14E+09	5.30E+09			
S104	Cs137	4/30/76	4554		2.20E-01	Ci/L	G	sludge	RAW	Cs137	8.14E+09	5.30E+09			
S104	Cs137	4/23/80			2.00E-01	Ci/L	G	SLUDGE	RAW	Cs137	7.40E+09	5.28E+09			
S104	Cs137	12/4/78	4523	1.52	1.36E+02	uCi/g	S	Solids	RAW	Cs137	7.63E+09	5.27E+09			
S104	Cs137	12/4/78	4523	1.52	1.36E+02	uCi/g	S	solids	RAW	Cs137	7.63E+09	5.27E+09			
SX-111	Cs137				0.1403	Ci/L	S		HTCE Inv.	Cs137		5.19E+09			
SX102	Cs-137	11/26/74	RAT-SX102-2B	1.9	222000	uCi/L	G	Sludge	Braun	Cs-137	8.21E+09	5.17E+09			
C110	Cs137	11/26/74		1.9	2.22E+05	uCi/L	G	SLUDGE	RAW	Cs137	8.21E+09	5.17E+09			
S104	Cs137	9/12/75		1.45	2.15E+05	uCi/L	G	SLUDGE	RAW	Cs137	7.96E+09	5.10E+09			
S104	Cs137	9/12/75		1.45	2.15E+05	uCi/L	G	SLUDGE	RAW	Cs137	7.96E+09	5.10E+09			
S104	Cs137	9/1/92	B08T17	1.2	1.21E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.37E+09	5.09E+09			
S104	Cs137	8/1/75					G	Sludge	Wastren	Cs137	7.96E+09	5.09E+09			
SX111	Cs-137	8/1/75	RAT-SX111-1	1.21	215000	uCi/L	S	Supernate/Solids	Braun	Cs-137	7.96E+09	5.09E+09			
SX111	Cs-137	8/1/75	RAT-SX111-1	1.45	215000	uCi/L	S	Supernate/Solids	Braun	Cs-137	7.96E+09	5.09E+09			
T103	Cs-137	7/24/73	T-7869		221000	uCi/L	U	Unknown	Braun	Cs-137	8.18E+09	4.99E+09			
T103	Cs-137	7/19/73	RAT-T103-1		219000	uCi/L	U	Unknown	Braun	Cs-137	8.10E+09	4.95E+09			
S104	Cs137	12/3/79	1470	1.251	1.89E+05	uCi/L	S	bottom	RAW	Cs137	6.99E+09	4.94E+09			
S104	Cs137	7/23/79	S-1470	1.251	1.89E+05	uCi/L	S	bottom	RAW	Cs137	6.99E+09	4.90E+09			
S104	Cs137	4/4/72					G	Sludge	Wastren	Cs137	8.27E+09	4.90E+09			
BY112	Cs-137	4/4/72	RAT-BY112-1	1.48	151	uCi/gm	S	Solids	Braun	Cs-137	8.27E+09	4.90E+09			
S104	Cs137	4/4/72		1.48	1.51E+02	uCi/g	S	Top Solids	RAW	Cs137	8.27E+09	4.90E+09			
SX104	Cs137	4/23/75					K	Saltcake	Wastren	Cs137	7.66E+09	4.87E+09			
S110	Cs-137	4/23/75	RAT-S110-3	1.9	108.8	uCi/gm	A	Salts	Braun	Cs-137	7.65E+09	4.86E+09			
S104	Cs137	4/23/75		1.9	1.09E+02	uCi/g	A	salt	RAW	Cs137	7.65E+09	4.86E+09			
S104	Cs137	9/1/92	B08T17	1.2	1.15E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.11E+09	4.84E+09			
S111	Cs137	6/30/87	251S0000	1.66	9.32E+01	uCi/g	I	Core Composite	RAW	Cs137	5.72E+09	4.82E+09			
S104	Cs137	12/3/79	1468	1.241	1.84E+05	uCi/L	S	bottom	RAW	Cs137	6.81E+09	4.81E+09			
S104	Cs137	7/23/79	S-1468	1.241	1.84E+05	uCi/L	S	bottom	RAW	Cs137	6.81E+09	4.77E+09			
C-106	Cs137				0.1278	Ci/L	S		HTCE Inv.	Cs137		4.73E+09			
TY104	Cs-137	8/14/85	251S0000	1.66	93.2	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.72E+09	4.61E+09			
T102	Cs-137	7/24/73	T-7892		204000	uCi/L	U	Unknown	Braun	Cs-137	7.55E+09	4.61E+09			
T102	Cs-137	7/20/73	RAT-T102-1		204000	uCi/L	U	Unknown	Braun	Cs-137	7.55E+09	4.61E+09			
SX107	Cs137	1/25/74	T-1746	1.4081	1.98E+05	uCi/L	O		RAW	Cs137	7.33E+09	4.53E+09			
C104	Cs-137	8/23/77	9172-B		180000	uCi/L	G	Sludge	Braun	Cs-137	6.66E+09	4.47E+09			
S104	Cs137	8/23/77	9172		1.80E+05	uCi/L	G	sludge	RAW	Cs137	6.66E+09	4.47E+09			
S104	Cs137	2/28/77		1.41	1.29E+02	uCi/g	A	salt	RAW	Cs137	6.73E+09	4.46E+09			
BX105	Cs137	1/5/88	A2XCXXXX	1.54	9.19E+01	uCi/g	I	core composite	RAW	Cs137	5.24E+09	4.46E+09			
S111	Cs-137	12/27/76	RAT-S111-4	1.41	129	uCi/gm	A	Salts	Braun	Cs-137	6.73E+09	4.45E+09			
U108	Cs137	8/5/75	T-6806	1.32	7.04E+05	uCi/gal	O		RAW	Cs137	6.88E+09	4.40E+09			
U108	Cs137	1/5/88	71XC00XX	1.85	7.51E+01	uCi/g	I	Core Composite	RAW	Cs137	5.14E+09	4.38E+09			
S104	Cs137	5/2/79	3	1.54	1.10E+05	uCi/kg	I	Core Segment	RAW	Cs137	6.27E+09	4.37E+09			
S104	Cs137	10/1/91	B08XB9	1	1.27E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.70E+09	4.36E+09			
S104	Cs137	10/1/91	B08XB9	1	1.26E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.66E+09	4.33E+09			
S110	Cs-137	8/9/74	RAT-S110-1	1.7	186000	uCi/L	G	Sludge	Braun	Cs-137	6.88E+09	4.30E+09			
S104	Cs137	8/9/74		1.7	1.86E+05	uCi/L	G	Sludge	RAW	Cs137	6.88E+09	4.30E+09			
BX107	Cs137	10/1/91	B08XB9	1	1.25E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.63E+09	4.29E+09			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S104	Cs137	10/1/91	B08XB9	1	1.25E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.63E+09	4.29E+09	
SX102	Cs-137	3/18/76	RAT-SX102-3	1.829	97.7	uCi/gm	A	Salts	Braun	Cs-137	6.61E+09	4.29E+09	
S104	Cs137	3/18/76		1.829	9.77E+01	uCi/g	A	SALT	RAW	Cs137	6.61E+09	4.29E+09	
BY104	Cs-137	11/12/92	R-1775		76	uCi/gm	T	Crust	Braun	Cs-137	4.50E+09	4.28E+09	
S104	Cs137	3/13/86					G	Sludge	Wastren	Cs137	5.24E+09	4.28E+09	
A106	Cs-137	3/13/86	A2XCOOXX	1.54	91.9	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.24E+09	4.28E+09	
SX-113	Cs137				0.1153	ci/L	S		HTCE Inv.	Cs137		4.27E+09	
SX104	Cs137	2/1/80		2.17	7.49E+01	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	6.01E+09	4.26E+09	
SX-112	Cs137				0.1135	ci/L	S		HTCE Inv.	Cs137		4.20E+09	
AX-102	Cs137				0.1133	ci/L	S		HTCE Inv.	Cs137		4.19E+09	
BX104	Cs-137	2/14/86	71XCOOXX	1.85	75.1	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.14E+09	4.19E+09	
C-103	Cs137				0.1126	ci/L	S		HTCE Inv.	Cs137		4.17E+09	
AX-103	Cs137				0.1124	ci/L	S		HTCE Inv.	Cs137		4.16E+09	
U-102	Cs137				0.1124	ci/L	S		HTCE Inv.	Cs137		4.16E+09	
S111	Cs-137	8/25/78	1009-C	1.46	109.6	uCi/gm	S	Solids	Braun	Cs-137	5.92E+09	4.06E+09	
S111	Cs-137	8/25/78	1009-C	1.44	109.6	uCi/gm	S	Solids	Braun	Cs-137	5.84E+09	4.01E+09	
U103	Cs-137	4/16/76	RAT-U103-1	1.2278	166000	uCi/l	S	Supernate/Solids	Braun	Cs-137	6.14E+09	3.99E+09	
U103	Cs-137	4/16/76	RAT-U103-1	1.305	166000	uCi/l	S	Supernate/Solids	Braun	Cs-137	6.14E+09	3.99E+09	
S104	Cs137	4/16/76		1.2278	1.66E+05	uCi/L	G	SLUDGE	RAW	Cs137	6.14E+09	3.99E+09	
S104	Cs137	8/25/78	1009-C	1.44	1.09E+02	uCi/g	S	water soluble	RAW	Cs137	5.81E+09	3.99E+09	
S104	Cs137	8/25/78	1009#C	1.44	1.09E+02	uCi/g	S	Water soluble	RAW	Cs137	5.81E+09	3.99E+09	
U103	Cs-137	3/15/85	RAT-U103-2	1.387	205000	uCi/l	U	Unknown	Braun	Cs-137	7.59E+09	3.82E+09	
C104	Cs137	8/21/74		1.704	9.60E+01	uCi/g	A	Salt	RAW	Cs137	6.05E+09	3.79E+09	
S104	Cs137	8/2/92			6.75E+01	uCi/g	S		RAW	Cs137	4.00E+09	3.78E+09	
S104	Cs137	8/1/92	B08TF6	1.6	6.75E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.00E+09	3.78E+09	
S104	Cs137	4/13/90					G	Sludge	Wastren	Cs137	4.14E+09	3.71E+09	
BX105	Cs137	8/2/92			6.61E+01	uCi/g	S		RAW	Cs137	3.91E+09	3.70E+09	
U110	Cs137	8/1/92	B08TF7	1.6	6.61E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.91E+09	3.70E+09	
S104	Cs-137	6/24/93	F-2171		64.7	uCi/gm	G	Sludge	Braun	Cs-137	3.83E+09	3.70E+09	
S104	Cs-137	6/24/93	F-2177		63.5	uCi/gm	G	Sludge	Braun	Cs-137	3.76E+09	3.63E+09	
C103	Cs-137	5/14/86	F2XCOOXX	1.54	77	uCi/gm	I	Sludge/Composite	Braun	Cs-137	4.39E+09	3.60E+09	
BX112	Cs137	8/2/92			6.40E+01	uCi/g	S		RAW	Cs137	3.79E+09	3.58E+09	
U102	Cs137	8/1/92	B08TL3	1.6	6.40E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.79E+09	3.58E+09	
U102	Cs137	8/1/92	B08TL4	1.6	6.40E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.79E+09	3.58E+09	
U110	Cs137	5/28/93	B08WT4	1.745	5.75E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.71E+09	3.58E+09	
U110	Cs137	8/2/92			6.39E+01	uCi/g	S		RAW	Cs137	3.78E+09	3.58E+09	
BX105	Cs137	8/1/92	B08TL4	1.6	6.39E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.78E+09	3.58E+09	
T105	Cs137	5/15/79			8.63E+04	uCi/kg	S	95% Confidence Interval	RAW	Cs137	5.11E+09	3.57E+09	
S102	Cs137	9/18/80		1.365	9.79E+01	uCi/g	I	H2O soluble	RAW	Cs137	4.94E+09	3.56E+09	
T105	Cs137	8/2/92			6.35E+01	uCi/g	S		RAW	Cs137	3.76E+09	3.56E+09	
S111	Cs137	8/1/92	B08S48	1.6	6.35E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.76E+09	3.56E+09	
S111	Cs137	8/2/92			6.31E+01	uCi/g	S		RAW	Cs137	3.74E+09	3.53E+09	
TX118	Cs137	8/1/92	B08TL3	1.6	6.31E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.74E+09	3.53E+09	
U110	Cs137	8/2/92			6.26E+01	uCi/g	S		RAW	Cs137	3.71E+09	3.51E+09	
C112	Cs137	8/1/92	B08TF7	1.6	6.26E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.71E+09	3.51E+09	
C110	Cs-137	8/31/77	T-9501-17		140000	uCi/l	G	Sludge	Braun	Cs-137	5.18E+09	3.48E+09	
C103	Cs137	8/31/77	9501		1.40E+05	uCi/L	S	sludge	RAW	Cs137	5.18E+09	3.48E+09	
C112	Cs137	8/2/92			6.20E+01	uCi/g	S		RAW	Cs137	3.67E+09	3.47E+09	
S109	Cs137	8/1/92	B08TF6	1.6	6.20E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.67E+09	3.47E+09	
TY105	Cs-137	2/1/80	RAT-TY105-1	1.44	91.57	uCi/gm	G	Sludge	Braun	Cs-137	4.88E+09	3.46E+09	
S104	Cs-137	6/24/93	F-2175		60.3	uCi/gm	G	Sludge	Braun	Cs-137	3.57E+09	3.45E+09	
S109	Cs137	8/2/92			6.11E+01	uCi/g	S		RAW	Cs137	3.62E+09	3.42E+09	
T105	Cs137	8/1/92	B08S48	1.6	6.11E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.62E+09	3.42E+09	
S110	Cs137	8/2/92			6.03E+01	uCi/g	S		RAW	Cs137	3.57E+09	3.38E+09	
TY104	Cs137	8/1/92	B08TJ4	1.6	6.03E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.57E+09	3.38E+09	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
U110	Cs137	8/2/92			6.02E+01	uCi/g	S		RAW	Cs137	3.56E+09	3.37E+09		
C107	Cs137	8/1/92	B08TJ4	1.6	6.02E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.56E+09	3.37E+09		
U110	Cs-137	11/29/89	89-071		63.5	uCi/gm	G	Sludge	Braun	Cs-137	3.76E+09	3.34E+09		
SX104	Cs-137	2/14/77	RAT-SX104-2	1.39	97	uCi/gm	A	Salts	Braun	Cs-137	4.99E+09	3.31E+09		
U110	Cs137	2/14/77		1.39	9.70E+01	uCi/g	A	SALT	RAW	Cs137	4.99E+09	3.31E+09		
T105	Cs137	8/2/92			5.90E+01	uCi/g	S		RAW	Cs137	3.49E+09	3.30E+09		
BX110	Cs137	8/1/92	B08S50	1.6	5.90E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.49E+09	3.30E+09		
TY104	Cs137	9/18/80					G	Sludge	Wastren	Cs137	4.57E+09	3.29E+09		
U110	Cs137	8/2/92			5.83E+01	uCi/g	S		RAW	Cs137	3.45E+09	3.26E+09		
C107	Cs137	8/1/92	B08TJ5	1.6	5.83E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.45E+09	3.26E+09		
SX107	Cs-137	1/29/77	1345	1.33	130000	uCi/l	A	Salts	Braun	Cs-137	4.81E+09	3.18E+09		
C112	Cs137	1/29/77	1345	1.33	1.30E+05	uCi/L	A	SALT	RAW	Cs137	4.81E+09	3.18E+09		
U110	Cs137	1/29/77					G	Sludge	Wastren	Cs137	4.81E+09	3.18E+09		
A101	Cs-137	11/10/80	RAT-A101-9A	1.58	117000	uCi/l	R	Slurry	Braun	Cs-137	4.33E+09	3.13E+09		
SX103	Cs137	8/2/92			5.57E+01	uCi/g	S		RAW	Cs137	3.30E+09	3.12E+09		
U110	Cs137	8/1/92	B08TJ5	1.6	5.57E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.30E+09	3.12E+09		
U110	Cs137	1/5/88	81XC00XX	1.58	6.23E+01	uCi/g	I	Core Composite	RAW	Cs137	3.64E+09	3.10E+09		
U108	Cs-137	8/14/75	RAT-U108-1	0.898	144.5	uCi/gm	G	Sludge	Braun	Cs-137	4.80E+09	3.07E+09		
U110	Cs137	8/14/75		0.898	1.45E+02	uCi/g	G	SLUDGE	RAW	Cs137	4.80E+09	3.07E+09		
C112	Cs137	8/14/75					K	Saltcake	Wastren	Cs137	4.80E+09	3.07E+09		
C-108	Cs137				0.0826	Cl/L	S		HTCE Inv.	Cs137		3.05E+09		
BX112	Cs137	8/2/92			5.42E+01	uCi/g	S		RAW	Cs137	3.21E+09	3.04E+09		
S105	Cs137	8/1/92	B08S46	1.6	5.42E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.21E+09	3.04E+09		
U110	Cs137	8/2/92			5.39E+01	uCi/g	S		RAW	Cs137	3.19E+09	3.02E+09		
C109	Cs137	8/1/92	B08S50	1.6	5.39E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.19E+09	3.02E+09		
TY101	Cs137	5/2/79	2	1.42	8.21E+04	uCi/kg	I	Core Segment	RAW	Cs137	4.31E+09	3.01E+09		
U110	Cs137	8/2/92			5.37E+01	uCi/g	S		RAW	Cs137	3.18E+09	3.01E+09		
U110	Cs137	8/1/92	B08S46	1.6	5.37E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.18E+09	3.01E+09		
T105	Cs137	8/2/92			5.36E+01	uCi/g	S		RAW	Cs137	3.17E+09	3.00E+09		
C112	Cs137	8/1/92	B08S50	1.6	5.36E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.17E+09	3.00E+09		
BX-110	Cs137				0.0805	Cl/L	S		HTCE Inv.	Cs137		2.98E+09		
SX104	Cs-137	6/19/74	RAT-SX104-1	1.62	129000	uCi/l	G	Sludge	Braun	Cs-137	4.77E+09	2.98E+09		
SX115	Cs137	6/19/74		1.62	1.29E+05	uCi/L	S	Chunks, bottom layer	RAW	Cs137	4.77E+09	2.98E+09		
BX105	Cs-137	3/3/86	81XC00XX	1.58	62.3	uCi/gm	I	Sludge/Composite	Braun	Cs-137	3.64E+09	2.97E+09		
BX107	Cs137	8/2/92			5.29E+01	uCi/g	S		RAW	Cs137	3.13E+09	2.98E+09		
B110	Cs137	8/1/92	B08S46	1.6	5.29E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.13E+09	2.96E+09		
BX107	Cs137	8/1/92	B08S46	1.6	5.29E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.13E+09	2.96E+09		
S111	Cs-137	9/18/80	RAT-S111-5		69.5	uCi/gm	S	Solids	Braun	Cs-137	4.11E+09	2.96E+09		
S102	Cs-137	3/7/74	T-2759	1.31	481000	uCi/gal	G	Sludge	Braun	Cs-137	4.70E+09	2.91E+09		
U110	Cs137	3/7/74	T-2759	1.31	4.81E+05	uCi/gal	O		RAW	Cs137	4.70E+09	2.91E+09		
U110	Cs137	8/2/92			5.15E+01	uCi/g	S		RAW	Cs137	3.05E+09	2.88E+09		
BX107	Cs137	8/1/92	B08S48	1.6	5.15E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.05E+09	2.88E+09		
U110	Cs-137	12/15/89	89-070/1/2		53.5	uCi/gm	I	Sludge/Composite	Braun	Cs-137	3.17E+09	2.82E+09		
BX107	Cs137	8/2/92			4.96E+01	uCi/g	S		RAW	Cs137	2.94E+09	2.78E+09		
U110	Cs137	8/1/92	B08S48	1.6	4.96E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.94E+09	2.78E+09		
T102	Cs137	12/18/75	T-769	1.16	4.37E+05	uCi/gal	D	suspended solids	RAW	Cs137	4.27E+09	2.76E+09		
U110	Cs-137	11/30/89	89-075		51.3	uCi/gm	G	Sludge	Braun	Cs-137	3.04E+09	2.70E+09		
SX-107	Cs137				0.0729	Cl/L	S		HTCE Inv.	Cs137		2.70E+09		
SX-108	Cs137				0.0715	Cl/L	S		HTCE Inv.	Cs137		2.64E+09		
T105	Cs137	8/2/92			4.71E+01	uCi/g	S		RAW	Cs137	2.79E+09	2.64E+09		
T102	Cs137	8/1/92	B08S50	1.6	4.71E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.79E+09	2.64E+09		
S104	Cs-137	1/9/76	RAT-S104-1	1.21	0.11	Cl/L	G	Sludge	Braun	Cs-137	4.07E+09	2.63E+09		
S104	Cs-137	1/9/76	RAT-S104-2	1.21	0.11	Cl/L	G	Sludge	Braun	Cs-137	4.07E+09	2.63E+09		
TY104	Cs137	1/9/76		1.21	1.10E-01	Cl/L	S	Stiff dough	RAW	Cs137	4.07E+09	2.63E+09		
U110	Cs137	1/5/88	82XC00XX	1.79	4.59E+01	uCi/g	I	Core Composite	RAW	Cs137	3.04E+09	2.59E+09		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids (Sketch ES-VAL-CR08)
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Cs-137	1/28/80	RAT-TX118-1	1.341	73	uCi/gm	S	Solids	Braun	Cs-137	3.62E+09	2.57E+09	
BX107	Cs137	12/1/89			4.84E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.87E+09	2.55E+09	
TY101	Cs137	9/18/80			5.97E+01	uCi/g	S	Water insoluble	RAW	Cs137	3.53E+09	2.54E+09	
U110	Cs-137	9/19/89	89-041		48.4	uCi/gm	G	Sludge	Braun	Cs-137	2.87E+09	2.54E+09	
U110	Cs137	3/1/76					G	Sludge	Wastren	Cs137	3.89E+09	2.52E+09	
U102	Cs-137	3/1/76	RAT-U102-1	1.27	105000	uCi/l	S	Supernate/Solids	Braun	Cs-137	3.89E+09	2.52E+09	
U102	Cs-137	3/1/76	RAT-U102-1	1.38	105000	uCi/l	S	Supernate/Solids	Braun	Cs-137	3.89E+09	2.52E+09	
U102	Cs-137	3/1/76	RAT-U102-1	1.6	105000	uCi/l	S	Supernate/Solids	Braun	Cs-137	3.89E+09	2.52E+09	
BX110	Cs137	3/1/76			1.05E+05	uCi/L	S	Fine Top Solids	RAW	Cs137	3.89E+09	2.52E+09	
BX107	Cs137	12/1/89		1.42	5.36E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.82E+09	2.51E+09	
U110	Cs137	12/1/89		1.42	5.35E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.81E+09	2.50E+09	
C110	Cs137	3/4/86					G	sludge	Wastren	Cs137	3.04E+09	2.48E+09	
BX105	Cs-137	3/4/86	82XCOOXX	1.79	45.9	uCi/gm	I	Sludge/Composite	Braun	Cs-137	3.04E+09	2.48E+09	
C110	Cs137	5/28/93	B08WT2	0.89	7.79E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.57E+09	2.47E+09	
C110	Cs137	11/16/73	459	1.29	4.00E+05	uCi/gal	S	Solid	RAW	Cs137	3.91E+09	2.40E+09	
C110	Cs137	5/28/93	B08WT4	1.745	3.81E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.46E+09	2.37E+09	
S111	Cs-137	8/25/78	1001-C	1.27	72.4	uCi/gm	S	Solids	Braun	Cs-137	3.40E+09	2.34E+09	
C110	Cs137	8/25/78	1001#C	1.27	7.21E+01	uCi/g	A	Salt	RAW	Cs137	3.39E+09	2.33E+09	
C110	Cs137	8/25/78	10001-C	1.27	7.21E+01	uCi/g	S	water soluble	RAW	Cs137	3.39E+09	2.33E+09	
U110	Cs137	3/31/77		1.26	7.30E+01	uCi/g	S		RAW	Cs137	3.40E+09	2.26E+09	
BX110	Cs137	12/1/89			4.29E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.54E+09	2.26E+09	
TX118	Cs-137	2/3/77	RAT-TX118-1	1.26	73	uCi/gm	S	Solids	Braun	Cs-137	3.40E+09	2.25E+09	
U110	Cs137	3/1/92	B08DN6	1.3	4.98E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.40E+09	2.24E+09	
TY103	Cs137	5/1/75	T-4073	1.16	3.61E+05	uCi/gal	O	Other	RAW	Cs137	3.53E+09	2.24E+09	
C112	Cs137	3/1/92	B08DN6	1.3	4.96E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.39E+09	2.24E+09	
S109	Cs-137	12/8/76	RAT-S109-1	1.27	71.8	uCi/gm	A	Salts	Braun	Cs-137	3.37E+09	2.23E+09	
T105	Cs137	12/8/76					K	Saltcake	Wastren	Cs137	3.37E+09	2.22E+09	
T105	Cs137	10/29/76		1.27	7.18E+01	uCi/g	S	crystals	RAW	Cs137	3.37E+09	2.22E+09	
C112	Cs137	5/28/93	B08WT4	1.745	3.52E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.27E+09	2.19E+09	
C-104	Cs137				0.0591	Ci/L	S		HTCE Inv.	Cs137		2.19E+09	
S110	Cs-137	8/9/74	RAT-S110-2	1.53	94500	uCi/l	G	Sludge	Braun	Cs-137	3.50E+09	2.19E+09	
U110	Cs137	8/9/74		1.53	9.45E+04	uCi/L	G	Sludge	RAW	Cs137	3.50E+09	2.19E+09	
U110	Cs-137	12/4/89	89-084		41.5	uCi/gm	G	Sludge	Braun	Cs-137	2.46E+09	2.19E+09	
U110	Cs137	6/30/87	261S0000	1.48	4.70E+01	uCi/g	I	Core Composite	RAW	Cs137	2.57E+09	2.17E+09	
U110	Cs137	12/1/89		1.14	5.73E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.42E+09	2.15E+09	
C107	Cs-137	9/26/77	T-510-32		86000	uCi/l	G	Sludge	Braun	Cs-137	3.18E+09	2.14E+09	
C110	Cs137	9/26/77	AL#3143/3144 JS#32/33		8.60E+04	uCi/L	S	solid, top	RAW	Cs137	3.18E+09	2.14E+09	
BX112	Cs-137	6/11/79	RAT-BX112-1	1.22	66.68	uCi/gm	G	Sludge	Braun	Cs-137	3.01E+09	2.10E+09	
C110	Cs137	12/1/89		1	6.35E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.35E+09	2.09E+09	
U110	Cs137	5/28/93	B08WT4	1.745	3.35E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.16E+09	2.09E+09	
U110	Cs137	11/9/78		1.71	4.77E+01	uCi/g	s	red crystals	RAW	Cs137	3.02E+09	2.08E+09	
TY104	Cs-137	8/16/85	261S0000	1.48	47	uCi/gm	I	Sludge/Composite	Braun	Cs-137	2.57E+09	2.07E+09	
U110	Cs137	8/16/85					G	Sludge	Wastren	Cs137	2.57E+09	2.07E+09	
T102	Cs137	12/1/89		1.93	3.26E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.33E+09	2.07E+09	
SX103	Cs-137	3/18/76	RAT-SX103-2	1.601	53.6	uCi/gm	A	Salts	Braun	Cs-137	3.18E+09	2.06E+09	
U110	Cs-137	9/19/89	89-040/1		39.2	uCi/gm	I	Sludge/Composite	Braun	Cs-137	2.32E+09	2.06E+09	
C107	Cs-137	9/26/77	T-510-33		81000	uCi/l	G	Sludge	Braun	Cs-137	3.00E+09	2.01E+09	
T102	Cs137	9/26/77	AL#3143/3144 JS#32/33		8.10E+04	uCi/L	S	solid, top	RAW	Cs137	3.00E+09	2.01E+09	
C112	Cs137	3/1/92	B08DN8	1.6	3.54E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.10E+09	1.96E+09	
C112	Cs137	12/1/89		1.31	4.51E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.19E+09	1.94E+09	
SX103	Cs-137	9/17/76	RAT-SX103-3	0.84	95.1	uCi/gm	A	Salts	Braun	Cs-137	2.96E+09	1.94E+09	
U110	Cs137	9/17/76		0.84	9.51E+01	uCi/g	A	SALT	RAW	Cs137	2.96E+09	1.94E+09	
U110	Cs137	12/1/89		1.77	3.33E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.18E+09	1.94E+09	
C110	Cs137	12/1/89		1.59	3.70E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.18E+09	1.94E+09	
U105	Cs137	12/1/89		1.14	5.13E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.16E+09	1.93E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
C110	Cs137	3/1/92	B08DN8	1.6	3.46E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.05E+09	1.92E+09		
C110	Cs137	9/5/74		1.462	5.63E+01	uCi/g	S	solid	RAW	Cs137	3.05E+09	1.91E+09		
U110	Cs-137	9/19/89	89-040		36.3	uCi/gm	G	Sludge	Braun	Cs-137	2.15E+09	1.90E+09		
C110	Cs137	8/15/79		1.22	5.97E+01	uCi/g	S	Water Insoluble	RAW	Cs137	2.69E+09	1.89E+09		
C110	Cs137	3/13/74		1.46	5.63E+01	uCi/g	S	solid	RAW	Cs137	3.04E+09	1.88E+09		
U110	Cs137	12/1/89		1.77	3.18E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.08E+09	1.85E+09		
BX110	Cs-137	9/18/80	RAT-BX110-1	1.45	47.3	uCi/gm	G	Sludge	Braun	Cs-137	2.54E+09	1.83E+09		
U110	Cs137	9/1/92	B08T17	1.2	4.34E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.93E+09	1.83E+09		
C109	Cs137	9/18/80			4.25E+01	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	2.52E+09	1.81E+09		
C110	Cs137	12/1/89		1	5.44E+01	uCi/g	I	DUPLICATE	TCD	Cs137	2.01E+09	1.79E+09		
C110	Cs137	12/1/89		1.31	4.15E+01	uCi/g	I	PRIMARY	TCD	Cs137	2.01E+09	1.79E+09		
S105	Cs-137	3/1/74	RAT-S105-2	1.38	0.294	Cl/gal	S	Solids	Braun	Cs-137	2.87E+09	1.78E+09		
S-104	Cs137				0.0479	ci/L	S		HTCE Inv.	Cs137		1.77E+09		
BX110	Cs-137	2/14/79	1010-C	1.44	47.3	uCi/gm	G	Sludge	Braun	Cs-137	2.52E+09	1.75E+09		
T105	Cs-137	10/26/93	RAT-T105-2B	2.01	23.9	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.78E+09	1.73E+09		
U110	Cs-137	11/15/89	89-049		32.6	uCi/gm	G	Sludge	Braun	Cs-137	1.93E+09	1.72E+09		
BX107	Cs137	5/28/93	B08WT2	0.89	5.33E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.76E+09	1.69E+09		
S107	Cs137	3/1/92	B08DN6	1.3	3.73E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.79E+09	1.68E+09		
U110	Cs-137	11/29/89	89-070		31.8	uCi/gm	G	Sludge	Braun	Cs-137	1.88E+09	1.67E+09		
SX101	Cs137	3/10/75					G	Sludge	Wastron	Cs137	2.61E+09	1.65E+09		
SX115	Cs-137	3/10/75	RAT-SX115-1	1.55	70500	uCi/l	G	Sludge	Braun	Cs-137	2.61E+09	1.65E+09		
C112	Cs137	3/10/75		0.55	7.05E+04	uCi/L	S	Dry	RAW	Cs137	2.61E+09	1.65E+09		
U110	Cs137	6/1/92	B08SD6	0.9956	4.72E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.74E+09	1.64E+09		
U110	Cs137	4/1/90		1.3	3.79E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.82E+09	1.64E+09		
U110	Cs137	6/1/92	B08SD6	0.9956	4.71E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.74E+09	1.63E+09		
U110	Cs-137	11/10/89	89-043		30.7	uCi/gm	G	Sludge	Braun	Cs-137	1.82E+09	1.61E+09		
U110	Cs-137	11/30/89	89-073/4/5/6		30.6	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.81E+09	1.61E+09		
BX107	Cs137	12/1/89		1.59	3.07E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.81E+09	1.61E+09		
U110	Cs137	3/1/93			2.82E+01	uCi/g	I	Core Composite, KOH Fusion	RAW	Cs137	1.67E+09	1.60E+09		
B110	Cs137	6/1/92	B08SD6	0.9956	4.59E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.69E+09	1.59E+09		
B110	Cs137	6/1/92	B08SD6	0.9956	4.57E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.68E+09	1.59E+09		
U110	Cs137	12/1/89		1.93	2.47E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.76E+09	1.57E+09		
C107	Cs137	3/1/93	B08732	1.3166667	3.27E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.59E+09	1.53E+09		
B-111	Cs137				0.0405	ci/L	S		HTCE Inv.	Cs137		1.50E+09		
S107	Cs137	9/1/92	B08T17	1.2	3.54E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.57E+09	1.49E+09		
C110	Cs137	5/28/93	B08WT4	1.745	2.39E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.54E+09	1.49E+09		
C110	Cs137	5/28/93	B08WT4	1.745	2.38E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.54E+09	1.48E+09		
U110	Cs137	3/1/93	B08732	1.3166667	3.10E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.51E+09	1.45E+09		
B110	Cs137	6/30/87	241S0000	1.77	2.61E+01	uCi/g	I	Core Composite	RAW	Cs137	1.71E+09	1.44E+09		
U110	Cs-137	12/4/89	89-083		27.2	uCi/gm	G	Sludge	Braun	Cs-137	1.61E+09	1.43E+09		
S109	Cs-137	8/19/74	RAT-S109-3	1.1	56	uCi/gm	A	Salts	Braun	Cs-137	2.28E+09	1.43E+09		
U110	Cs137	12/1/89		1.3	3.30E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.59E+09	1.41E+09		
U110	Cs-137	12/4/89	89-082		26.7	uCi/gm	G	Sludge	Braun	Cs-137	1.58E+09	1.41E+09		
U110	Cs137	6/1/92	B08X71	1.6	2.51E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.49E+09	1.40E+09		
BX107	Cs-137	10/20/92	J927-AV		24.7	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.46E+09	1.39E+09		
B110	Cs137	9/11/85					G	Sludge	Wastron	Cs137	1.72E+09	1.39E+09		
T107	Cs137	12/1/89		1.8	2.34E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.56E+09	1.39E+09		
TY104	Cs-137	8/6/85	241S0000	1.77	26.1	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.71E+09	1.38E+09		
U110	Cs137	9/18/80		1.45	3.55E+01	uCi/g	S	Water Insoluble	RAW	Cs137	1.90E+09	1.37E+09		
U110	Cs-137	11/30/89	89-076		26	uCi/gm	G	Sludge	Braun	Cs-137	1.54E+09	1.37E+09		
TY106	Cs137	6/1/92	B08X71	1.6	2.43E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.44E+09	1.36E+09		
B110	Cs137	12/1/89		1.04	3.92E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.51E+09	1.34E+09		
S107	Cs137	4/23/92			2.41E+01	uCi/g	S		RAW	Cs137	1.43E+09	1.34E+09		
T107	Cs137	4/23/92	B08VK1	1.6	2.41E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.43E+09	1.34E+09		
C107	Cs-137	8/2/77	T-8110-14		54000	uCi/l	G	Sludge	Braun	Cs-137	2.00E+09	1.34E+09		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U110	Cs137	4/23/92			2.40E+01	uCi/g	S		RAW	Cs137	1.42E+09	1.34E+09	
TY108	Cs137	4/23/92	B08VK1	1.6	2.40E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.42E+09	1.34E+09	
SX101	Cs137	4/23/92			2.39E+01	uCi/g	S		RAW	Cs137	1.41E+09	1.33E+09	
TY105	Cs137	4/23/92	B08VJ5	1.6	2.39E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.41E+09	1.33E+09	
B110	Cs137	7/3/74		1.5	5.71E+04	uCi/L	G	SLUDGE	RAW	Cs137	2.11E+09	1.32E+09	
U110	Cs137	2/14/79	1010-C	1.44	3.55E+01	uCi/g	S	Solid	RAW	Cs137	1.89E+09	1.31E+09	
U110	Cs137	12/1/89		1.3	3.06E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.47E+09	1.31E+09	
U110	Cs137	6/30/87	32XC00XX	1.7	2.47E+01	uCi/g	I	Core Composite	RAW	Cs137	1.55E+09	1.31E+09	
TY108	Cs137	3/1/92	B08DY1	2	1.87E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.38E+09	1.30E+09	
U110	Cs137	5/28/93	B08WT2	0.89	4.08E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.34E+09	1.30E+09	
U110	Cs137	5/28/93	B08WT2	0.89	4.07E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.34E+09	1.29E+09	
TY104	Cs137	3/1/92	B08DY1	2	1.86E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.38E+09	1.29E+09	
C110	Cs137	8/2/77	JS#1112/ 1314		5.20E+04	uCi/L	G	Sludge	RAW	Cs137	1.92E+09	1.29E+09	
C110	Cs137	12/1/89		1.54	2.54E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.45E+09	1.29E+09	
C110	Cs137	12/1/89		1.62	2.41E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.44E+09	1.29E+09	
C110	Cs137	12/1/89		1.04	3.74E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.44E+09	1.28E+09	
C110	Cs137	4/23/92			2.29E+01	uCi/g	S		RAW	Cs137	1.36E+09	1.27E+09	
C110	Cs137	4/23/92	B08VJ5	1.6	2.29E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.36E+09	1.27E+09	
C107	Cs-137	8/2/77	T-8110-13		51000	uCi/l	G	Sludge	Braun	Cs-137	1.89E+09	1.26E+09	
U110	Cs137	12/1/89		1.3	2.93E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.41E+09	1.25E+09	
TY103	Cs-137	8/21/85	32XC0000	1.7	24.7	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.55E+09	1.25E+09	
U110	Cs137	12/1/89		1.46	2.60E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.40E+09	1.25E+09	
U110	Cs-137	11/29/89	89-072		23.6	uCi/gm	G	Sludge	Braun	Cs-137	1.40E+09	1.24E+09	
U110	Cs137	12/1/89		1.04	3.63E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.40E+09	1.24E+09	
TY101	Cs137	3/1/93	B08732	1.3166667	2.66E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.30E+09	1.24E+09	
TY103	Cs137	3/1/93	B08732	1.3166667	2.63E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.28E+09	1.23E+09	
TY105	Cs137	3/1/92	B08DY1	2	1.77E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.31E+09	1.23E+09	
C109	Cs137	3/1/92	B08DM7	1.6	2.21E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.31E+09	1.23E+09	
SX102	Cs137	12/1/89		1.62	2.29E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.37E+09	1.22E+09	
C110	Cs137	12/1/89		1.46	2.54E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.37E+09	1.22E+09	
TY105	Cs-137	9/18/80	RAT-TY105-2	1.44	31.7	uCi/gm	G	Sludge	Braun	Cs-137	1.69E+09	1.22E+09	
U110	Cs-137	12/3/89	89-079		23	uCi/gm	G	Sludge	Braun	Cs-137	1.36E+09	1.21E+09	
SX102	Cs137	4/23/92	B08VH6	1.6	2.17E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.28E+09	1.21E+09	
U110	Cs-137	12/3/89	89-080		22.9	uCi/gm	G	Sludge	Braun	Cs-137	1.36E+09	1.21E+09	
T107	Cs137	12/4/78		1.62	2.90E+01	uCi/g	S	Solid(acid fusion)	RAW	Cs137	1.74E+09	1.20E+09	
U110	Cs137	4/23/92	B08VH6	1.6	2.15E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.27E+09	1.20E+09	
C110	Cs137	4/23/92			2.13E+01	uCi/g	S		RAW	Cs137	1.26E+09	1.19E+09	
U110	Cs-137	11/15/89	89-048		22.42	uCi/gm	G	Sludge	Braun	Cs-137	1.33E+09	1.18E+09	
C110	Cs137	4/23/92			2.11E+01	uCi/g	S		RAW	Cs137	1.25E+09	1.17E+09	
C110	Cs137	4/23/92	B08VH6	1.6	2.11E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.25E+09	1.17E+09	
C110	Cs137	12/1/89		1.53	2.33E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.32E+09	1.17E+09	
C110	Cs137	12/1/89		1.3	2.72E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.31E+09	1.16E+09	
C110	Cs137	9/1/92	B08T17	1.2	2.74E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.22E+09	1.15E+09	
C-107	Cs137				0.0311	Ci/L	S		HTCE Inv.	Cs137		1.15E+09	
C104	Cs-137	4/15/86	D1XC00XX	1.21	31.4	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.41E+09	1.15E+09	
C110	Cs137	4/23/92			2.05E+01	uCi/g	S		RAW	Cs137	1.21E+09	1.14E+09	
U110	Cs137	4/23/92	B08W47	1.6	2.05E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.21E+09	1.14E+09	
T107	Cs137	12/1/89		1.48	2.34E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.28E+09	1.14E+09	
B110	Cs137	6/1/92	B08X70	1.6	2.04E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.21E+09	1.14E+09	
BX107	Cs-137	10/20/92	J925-AV		20.19	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.20E+09	1.14E+09	
BX107	Cs137	2/14/75		1.48	4.84E+04	uCi/L	S	granular crystals	RAW	Cs137	1.79E+09	1.13E+09	
B110	Cs137	7/14/80	T-1013	1.08	4.27E+04	uCi/L	O		RAW	Cs137	1.58E+09	1.13E+09	
BX107	Cs137	3/1/92	B08DY1	2	1.63E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.21E+09	1.13E+09	
C112	Cs137	12/1/89		1.53	2.24E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.27E+09	1.13E+09	
T107	Cs137	12/1/89		1.04	3.29E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.27E+09	1.13E+09	
C112	Cs137	12/1/89		1.27	2.67E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.25E+09	1.12E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C107	Cs137	6/1/92	B08X70	1.6	2.00E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.18E+09	1.12E+09	
C109	Cs137	12/1/89		1.8	1.87E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.25E+09	1.11E+09	
S107	Cs137	8/9/89	89-0466-A-1	1.355	2.49E+01	uCi/g	I	core 2	RAW	Cs137	1.25E+09	1.10E+09	
T107	Cs137	8/9/89	89-0466-A-2	1.355	2.48E+01	uCi/g	I	core 2	RAW	Cs137	1.24E+09	1.10E+09	
B110	Cs137	12/1/89		1.4	2.37E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.23E+09	1.09E+09	
C107	Cs-137	8/2/77	T-8110-11		44000	uCi/l	G	Sludge	Braun	Cs-137	1.63E+09	1.09E+09	
C107	Cs-137	8/2/77	T-8110-12		44000	uCi/l	G	Sludge	Braun	Cs-137	1.63E+09	1.09E+09	
T107	Cs137	8/2/77	JS#1112/ 1314		4.40E+04	uCi/L	G	Sludge	RAW	Cs137	1.63E+09	1.09E+09	
U110	Cs-137	11/10/89	89-044		20.6	uCi/gm	G	Sludge	Braun	Cs-137	1.22E+09	1.08E+09	
U110	Cs-137	11/10/89	89-043/4/5		20.6	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.22E+09	1.08E+09	
B110	Cs137	4/23/92	B08VH6	1.6	1.93E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.14E+09	1.07E+09	
T107	Cs137	10/16/78					G	Sludge	Wastren	Cs137	1.55E+09	1.07E+09	
U110	Cs137	4/23/92			1.91E+01	uCi/g	S		RAW	Cs137	1.13E+09	1.08E+09	
B110	Cs137	4/23/92	B08W47	1.6	1.91E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.13E+09	1.06E+09	
B110	Cs137	12/1/89		1.4	2.30E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.19E+09	1.06E+09	
TY101	Cs137	8/9/89	89-0465-A-2	1.355	2.39E+01	uCi/g	I	core 2	RAW	Cs137	1.20E+09	1.08E+09	
A-103	Cs137				0.0283	CI/L	S		HTCE Inv.	Cs137		1.05E+09	
B110	Cs137	12/1/89		1.54	2.06E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.17E+09	1.04E+09	
B110	Cs137	12/1/89		1.22	2.58E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.16E+09	1.04E+09	
B110	Cs137	8/9/89	89-0465-A-1	1.355	2.31E+01	uCi/g	I	core 2	RAW	Cs137	1.16E+09	1.02E+09	
B110	Cs137	3/1/93	B08VD2	1.6	1.77E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.05E+09	1.00E+09	
B110	Cs137	12/1/89		1.675	1.81E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.12E+09	9.98E+08	
B110	Cs137	7/8/87	161C0000	1.43	2.23E+01	uCi/g	I	Core Composite	RAW	Cs137	1.18E+09	9.93E+08	
U110	Cs-137	11/10/89	89-045		18.7	uCi/gm	G	Sludge	Braun	Cs-137	1.11E+09	9.84E+08	
B110	Cs137	4/1/90		1.24	2.39E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.10E+09	9.83E+08	
T107	Cs137	2/14/75		1.48	4.19E+04	uCi/L	S	crystal mixture	RAW	Cs137	1.55E+09	9.81E+08	
B110	Cs137	3/1/93	B08VD2	1.6	1.71E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.01E+09	9.70E+08	
S107	Cs-137	7/1/74	RAT-S107-4	1.48	41900	uCi/l	G	Sludge	Braun	Cs-137	1.55E+09	9.67E+08	
U110	Cs-137	12/4/89	89-082/3/4		18.3	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.08E+09	9.64E+08	
B110	Cs137	12/1/89		1.675	1.74E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.08E+09	9.59E+08	
U110	Cs-137	12/3/89	89-078		18.2	uCi/gm	G	Sludge	Braun	Cs-137	1.08E+09	9.59E+08	
T107	Cs137	9/26/85					G	Sludge	Wastren	Cs137	1.18E+09	9.53E+08	
TY106	Cs-137	9/26/85	161C0000	1.43	22.3	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.18E+09	9.53E+08	
SX101	Cs-137	11/13/74	RAT-SX101-3	1.65	24.8	uCi/gm	A	Salts	Braun	Cs-137	1.51E+09	9.53E+08	
C109	Cs137	11/13/74		1.65	2.48E+01	uCi/g	A	salt	RAW	Cs137	1.51E+09	9.53E+08	
B110	Cs137	2/1/80		2.17	1.67E+01	uCi/g	S	H2O SOLUBLE	RAW	Cs137	1.34E+09	9.52E+08	
U110	Cs-137	11/15/89	89-047		18.1	uCi/gm	G	Sludge	Braun	Cs-137	1.07E+09	9.52E+08	
U110	Cs-137	11/15/89	89-046/7/8/9		18.1	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.07E+09	9.52E+08	
T107	Cs137	4/1/90		1.24	2.31E+01	uCi/g	I	PRIMARY	TCD	Cs137	1.08E+09	9.51E+08	
C110	Cs-137	8/31/77	T-9501-34		38000	uCi/l	G	Sludge	Braun	Cs-137	1.41E+09	9.43E+08	
BY112	Cs137	12/1/89		1.39	2.02E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.04E+09	9.24E+08	
B110	Cs137	12/1/89		1.27	2.20E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.03E+09	9.20E+08	
B110	Cs137	12/1/89		1.48	1.88E+01	uCi/g	I	DUPLICATE	TCD	Cs137	1.03E+09	9.16E+08	
BX107	Cs137	7/8/87	111C0000	1.31	2.15E+01	uCi/g	I	Core Composite	RAW	Cs137	1.04E+09	8.77E+08	
B110	Cs137	12/1/89		1.78	1.49E+01	uCi/g	I	DUPLICATE	TCD	Cs137	9.81E+08	8.73E+08	
TY106	Cs137	12/1/89		1.46	1.81E+01	uCi/g	I	PRIMARY	TCD	Cs137	9.78E+08	8.70E+08	
B110	Cs137	6/30/87	232S0000	1.85	1.51E+01	uCi/g	I	Core Composite	RAW	Cs137	1.03E+09	8.70E+08	
U110	Cs-137	12/3/89	89-077/8/9/0		16.5	uCi/gm	I	Sludge/Composite	Braun	Cs-137	9.77E+08	8.69E+08	
B110	Cs137	4/23/92			1.54E+01	uCi/g	S		RAW	Cs137	9.12E+08	8.57E+08	
B110	Cs137	4/23/92	B08VN6	1.6	1.54E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.12E+08	8.57E+08	
TY103	Cs-137	2/1/80	RAT-TY103-2	1.5	21.64	uCi/gm	G	Sludge	Braun	Cs-137	1.20E+09	8.52E+08	
B110	Cs137	4/23/92			1.53E+01	uCi/g	S		RAW	Cs137	9.06E+08	8.51E+08	
SX108	Cs137	4/23/92	B08VN6	1.6	1.53E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.06E+08	8.51E+08	
B110	Cs137	4/23/92			1.51E+01	uCi/g	S		RAW	Cs137	8.94E+08	8.40E+08	
B110	Cs137	4/23/92	B08VP1	1.6	1.51E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.94E+08	8.40E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
TY106	Cs-137	7/31/85	111COOOO	1.31	21.5	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.04E+09	8.39E+08		
B110	Cs137	12/1/89		1.39	1.82E+01	uCi/g	I	PRIMARY	TCD	Cs137	9.36E+08	8.33E+08		
TY104	Cs-137	8/6/85	232SOOOO	1.85	15.1	uCi/gm	I	Sludge/Composite	Braun	Cs-137	1.03E+09	8.32E+08		
B110	Cs137	12/1/89		1.46	1.73E+01	uCi/g	I	DUPLICATE	TCD	Cs137	9.35E+08	8.31E+08		
B110	Cs137	12/1/89		1.22	2.06E+01	uCi/g	I	PRIMARY	TCD	Cs137	9.30E+08	8.27E+08		
B110	Cs137	9/18/80			1.94E+01	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	1.15E+09	8.27E+08		
BX107	Cs137	2/1/80		1.5	2.10E+01	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	1.16E+09	8.26E+08		
B110	Cs137	9/18/80			1.93E+01	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	1.14E+09	8.22E+08		
B110	Cs137	9/1/92	B08T17	1.2	1.93E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.57E+08	8.12E+08		
B110	Cs137	5/25/75		1.88	3.43E+04	uCi/L	S	SOLIDS	RAW	Cs137	1.27E+09	8.08E+08		
B110	Cs137	4/23/92	B08VP9	1.6	1.45E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.58E+08	8.07E+08		
SX102	Cs-137	4/18/75	RAT-SX102-1	1.88	34300	uCi/l	S	Supernate/Solids	Braun	Cs-137	1.27E+09	8.06E+08		
S107	Cs137	4/18/75		1.88	3.43E+04	uCi/L	S	Solid	RAW	Cs137	1.27E+09	8.06E+08		
C109	Cs137	3/1/93	B08VD2	1.6	1.42E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.41E+08	8.06E+08		
B110	Cs137	12/1/89		1.48	1.65E+01	uCi/g	I	PRIMARY	TCD	Cs137	9.04E+08	8.04E+08		
B110	Cs137	4/23/92			1.43E+01	uCi/g	S		RAW	Cs137	8.47E+08	7.96E+08		
B110	Cs137	4/23/92			1.42E+01	uCi/g	S		RAW	Cs137	8.41E+08	7.90E+08		
B110	Cs137	4/23/92			1.42E+01	uCi/g	S		RAW	Cs137	8.41E+08	7.90E+08		
B110	Cs137	4/23/92	B08VP9	1.6	1.42E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.41E+08	7.90E+08		
S107	Cs137	4/23/92	B08VP9	1.6	1.42E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.41E+08	7.90E+08		
B110	Cs137	4/23/92			1.41E+01	uCi/g	S		RAW	Cs137	8.35E+08	7.85E+08		
B110	Cs137	4/23/92	B08VP1	1.6	1.41E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.35E+08	7.85E+08		
U107	Cs137	4/23/92	B08VP9	1.6	1.40E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.29E+08	7.79E+08		
T107	Cs137	12/1/89		1.29	1.83E+01	uCi/g	I	PRIMARY	TCD	Cs137	8.73E+08	7.77E+08		
TY106	Cs137	3/1/93	B08VD2	1.6	1.35E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.99E+08	7.66E+08		
B110	Cs137	4/1/90		1.36	1.69E+01	uCi/g	I	DUPLICATE	TCD	Cs137	8.49E+08	7.61E+08		
BX107	Cs-137	10/20/92	J924-AV		13.425	uCi/gm	I	Sludge/Composite	Braun	Cs-137	7.95E+08	7.56E+08		
B110	Cs137	6/1/92	B08X97	1.6	1.35E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.99E+08	7.53E+08		
B110	Cs137	4/1/90		1.36	1.67E+01	uCi/g	I	PRIMARY	TCD	Cs137	8.39E+08	7.52E+08		
B110	Cs137	6/1/92	B08X97	1.6	1.34E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.93E+08	7.48E+08		
TY103	Cs137	3/1/92	B08DN8	1.6	1.34E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.93E+08	7.43E+08		
B110	Cs137	3/1/93	B08V44	1.1	1.90E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.73E+08	7.41E+08		
B110	Cs137	3/1/92	B08DM7	1.6	1.31E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.76E+08	7.27E+08		
U111	Cs137	10/4/77	510		2.90E+04	uCi/L	S	solid, middle	RAW	Cs137	1.07E+09	7.22E+08		
C107	Cs-137	9/26/77	T-510-23		29000	uCi/l	G	Sludge	Braun	Cs-137	1.07E+09	7.21E+08		
U111	Cs137	9/1/92	B08T16	1.3	1.56E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.50E+08	7.11E+08		
C112	Cs137	11/6/73	T-178	1.1071	3.11E+04	uCi/L	O	Sup	RAW	Cs137	1.15E+09	7.07E+08		
B110	Cs137	3/1/93	B08VD2	1.6	1.24E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.34E+08	7.04E+08		
T107	Cs137	8/9/89	90-0636-A-1	1.355	1.59E+01	uCi/g	I	core 2	RAW	Cs137	7.95E+08	7.02E+08		
B110	Cs137	3/1/93	B08V43	1.15	1.71E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	7.28E+08	6.98E+08		
B110	Cs137	4/1/90		1.3	1.62E+01	uCi/g	I	PRIMARY	TCD	Cs137	7.77E+08	6.97E+08		
T107	Cs137	3/1/93	B08V43	1.15	1.70E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	7.23E+08	6.93E+08		
TY103	Cs137	12/1/89		1.29	1.63E+01	uCi/g	I	DUPLICATE	TCD	Cs137	7.78E+08	6.92E+08		
B110	Cs137	4/1/90		1.31	1.59E+01	uCi/g	I		RAW	Cs137	7.69E+08	6.89E+08		
T107	Cs137	8/9/89	90-0636-A-2	1.355	1.54E+01	uCi/g	I	core 2	RAW	Cs137	7.71E+08	6.81E+08		
C112	Cs137	9/18/80			1.60E+01	uCi/g	S	H2O SOLUBLE	RAW	Cs137	9.44E+08	6.80E+08		
B110	Cs137	8/9/89	89-1252-A-2	1.355	1.53E+01	uCi/g	I	core 2	RAW	Cs137	7.66E+08	6.76E+08		
T107	Cs137	4/1/90		1.34	1.51E+01	uCi/g	I	DUPLICATE	TCD	Cs137	7.47E+08	6.70E+08		
S102	Cs137	8/9/89	89-1251-A-2	1.355	1.51E+01	uCi/g	I	core 2	RAW	Cs137	7.55E+08	6.66E+08		
S102	Cs137	4/1/90		1.34	1.49E+01	uCi/g	I	PRIMARY	TCD	Cs137	7.41E+08	6.64E+08		
TY105	Cs137	4/1/90		1.33	1.51E+01	uCi/g	I	DUPLICATE	TCD	Cs137	7.41E+08	6.64E+08		
C109	Cs137	8/9/89	89-1251-A-1	1.355	1.50E+01	uCi/g	I	core 2	RAW	Cs137	7.51E+08	6.63E+08		
T107	Cs137	4/1/90		1.36	1.47E+01	uCi/g	I	DUPLICATE	TCD	Cs137	7.38E+08	6.61E+08		
T107	Cs137	4/1/90		1.33	1.50E+01	uCi/g	I	PRIMARY	TCD	Cs137	7.37E+08	6.61E+08		
T107	Cs137	3/1/93	B08V43	1.15	1.62E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.89E+08	6.61E+08		
C107	Cs137	4/1/90		1.36	1.46E+01	uCi/g	I	PRIMARY	TCD	Cs137	7.36E+08	6.60E+08		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
T107	Cs137	8/9/89	89-1252-A-1	1.355	1.49E+01	uCi/g	I	core 2	RAW	Cs137	7.47E+08	6.60E+08		
S107	Cs137	3/1/93	B08VD2	1.6	1.16E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	6.87E+08	6.58E+08		
S107	Cs137	9/1/92	B08T16	1.3	1.43E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	6.88E+08	6.52E+08		
B110	Cs137	4/1/90		1.24	1.59E+01	uCi/g	I	PRIMARY	TC	Cs137	7.27E+08	6.52E+08		
B110	Cs137	3/1/93	B08V44	1.1	1.67E+01	uCi/g	S	PRIMARY RESULT	TC	Cs137	6.80E+08	6.52E+08		
C109	Cs137	4/4/72		1.44	2.06E+01	uCi/g	S	Bottom Solids	RAW	Cs137	1.10E+09	6.50E+08		
S108	Cs137	4/1/90		1.37	1.43E+01	uCi/g	I	DUPLICATE	TC	Cs137	7.25E+08	6.50E+08		
T107	Cs137	4/1/90		1.36	1.44E+01	uCi/g	I	PRIMARY	TC	Cs137	7.25E+08	6.50E+08		
B110	Cs137	6/1/92	B08X98	1.6	1.16E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	6.87E+08	6.47E+08		
B110	Cs137	4/1/90		1.37	1.40E+01	uCi/g	I	PRIMARY	TC	Cs137	7.11E+08	6.38E+08		
TY106	Cs137	9/4/85		1.34	1.59E+01	uCi/g	I	Core Composite	RAW	Cs137	7.87E+08	6.35E+08		
BX107	Cs-137	10/20/92	J926-AV		11.265	uCi/gm	I	Sludge/Composite	Braun	Cs-137	6.67E+08	6.34E+08		
T108	Cs-137	3/15/65	RAT-T108-1		34000	uCi/l	U	Unknown	Braun	Cs-137	1.26E+09	6.34E+08		
B110	Cs137	4/1/90		1.24	1.54E+01	uCi/g	I	DUPLICATE	TC	Cs137	7.06E+08	6.33E+08		
B110	Cs137	4/1/90		1.23	1.54E+01	uCi/g	I		RAW	Cs137	6.99E+08	6.27E+08		
B110	Cs137	4/1/90		1.31	1.44E+01	uCi/g	I		RAW	Cs137	6.99E+08	6.27E+08		
B110	Cs137	8/9/89	89-0727-A-1	1.355	1.41E+01	uCi/g	I	core 2	RAW	Cs137	7.06E+08	6.24E+08		
B110	Cs137	4/18/78		1.33	1.86E+01	uCi/g	S	Solids(KOH Fusion)	RAW	Cs137	9.15E+08	6.23E+08		
B110	Cs137	4/1/90		1.3	1.45E+01	uCi/g	I		RAW	Cs137	6.95E+08	6.23E+08		
U203	Cs137	4/1/90		1.23	1.52E+01	uCi/g	I		RAW	Cs137	6.93E+08	6.21E+08		
B110	Cs137	8/9/89	89-0727-A-2	1.355	1.40E+01	uCi/g	I	core 2	RAW	Cs137	7.02E+08	6.20E+08		
C112	Cs137	4/1/90		1.3	1.42E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.85E+08	6.14E+08		
U110	Cs137	4/1/90		1.3	1.41E+01	uCi/g	I	PRIMARY	TC	Cs137	6.80E+08	6.10E+08		
S108	Cs137	8/9/89	90-0638-A-1	1.355	1.37E+01	uCi/g	I	core 2	RAW	Cs137	6.89E+08	6.08E+08		
C112	Cs137	6/1/92	B08X98	1.6	1.09E+01	uCi/g	S	PRIMARY RESULT	TC	Cs137	6.45E+08	6.08E+08		
U110	Cs137	4/1/90		1.3	1.41E+01	uCi/g	I	PRIMARY	TC	Cs137	6.77E+08	6.07E+08		
T107	Cs137	8/9/89	89-0728-A-2	1.355	1.37E+01	uCi/g	I	core 2	RAW	Cs137	6.87E+08	6.07E+08		
B110	Cs137	8/9/89	89-0728-A-1	1.355	1.36E+01	uCi/g	I	core 2	RAW	Cs137	6.84E+08	6.04E+08		
B110	Cs137	4/1/90		1.29	1.41E+01	uCi/g	I	PRIMARY	TC	Cs137	6.73E+08	6.03E+08		
B110	Cs137	11/8/73	178		1.00E+05	uCi/gal	S	solids	RAW	Cs137	9.77E+08	6.01E+08		
C112	Cs137	9/1/92	B08T69	1.6	1.07E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	6.33E+08	6.00E+08		
BX110	Cs137	4/1/90		1.29	1.40E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.68E+08	5.99E+08		
B110	Cs137	4/1/90		1.32	1.37E+01	uCi/g	I	PRIMARY	TC	Cs137	6.67E+08	5.98E+08		
S111	Cs137	4/1/90		1.3	1.38E+01	uCi/g	I		RAW	Cs137	6.64E+08	5.95E+08		
B110	Cs137	4/1/90		1.32	1.36E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.63E+08	5.95E+08		
C112	Cs137	4/1/90		1.17	1.53E+01	uCi/g	I		RAW	Cs137	6.63E+08	5.94E+08		
S107	Cs-137	11/6/73	T-178	1.14	26100	uCi/l	I	Composite	Braun	Cs-137	9.66E+08	5.94E+08		
T107	Cs137	11/6/73	T-178	1.1398	2.61E+04	uCi/L	S	total	RAW	Cs137	9.66E+08	5.94E+08		
C109	Cs137	4/1/90		1.36	1.31E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.60E+08	5.92E+08		
B110	Cs137	4/1/90		1.3	1.37E+01	uCi/g	I	PRIMARY	TC	Cs137	6.59E+08	5.91E+08		
BX110	Cs137	12/9/75					G	Sludge	Wastren	Cs137	9.14E+08	5.89E+08		
T107	Cs137	3/1/93	B08V43	1.15	1.44E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	6.13E+08	5.87E+08		
T107	Cs137	9/4/85		1.31	1.50E+01	uCi/g	I	Core Composite	RAW	Cs137	7.27E+08	5.87E+08		
B-101	Cs137				0.0158	CI/L	S		HTCE Inv.	Cs137		5.85E+08		
TY105	Cs137	4/1/90		1.28	1.37E+01	uCi/g	I	PRIMARY	TC	Cs137	6.51E+08	5.83E+08		
T107	Cs137	8/9/89	90-0638-A-2	1.355	1.31E+01	uCi/g	I	core 2	RAW	Cs137	6.55E+08	5.78E+08		
U107	Cs-137	12/9/74	RAT-U107-1	1.14	24700	uCi/l	G	Sludge	Braun	Cs-137	9.14E+08	5.76E+08		
U110	Cs137	4/1/90		1.3	1.34E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.42E+08	5.76E+08		
TX118	Cs137	4/1/90		1.3	1.34E+01	uCi/g	I	DUPLICATE	TC	Cs137	6.42E+08	5.76E+08		
T107	Cs137	6/30/87	31XC00XX	1.7	1.08E+01	uCi/g	I	Core Composite	RAW	Cs137	6.79E+08	5.72E+08		
C109	Cs137	4/1/90		1.17	1.46E+01	uCi/g	I		RAW	Cs137	6.33E+08	5.68E+08		
U110	Cs137	4/1/90		1.3	1.30E+01	uCi/g	I	PRIMARY	TC	Cs137	6.27E+08	5.62E+08		
U110	Cs137	8/14/75					G	Sludge	Wastren	Cs137	8.77E+08	5.61E+08		
U111	Cs-137	8/14/75	RAT-U111-1	0.908	26.1	uCi/gm	G	Sludge	Braun	Cs-137	8.77E+08	5.61E+08		
C112	Cs137	8/14/75		0.908	2.61E+01	uCi/g	G	SLUDGE	RAW	Cs137	8.77E+08	5.61E+08		
C109	Cs137	3/1/92	B08DN8	1.6	1.00E+01	uCi/g	S	DUPLICATE RESULT	TC	Cs137	5.92E+08	5.55E+08		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids (Sketch ES-VAL-CR08)
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B110	Cs137	4/1/90		1.28	1.31E+01	uCi/g	I	DUPLICATE	TCD	Cs137	6.19E+08	5.54E+08	
B110	Cs137	3/1/93	B08T22	1.2872727	1.21E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.76E+08	5.52E+08	
B110	Cs137	4/1/90		1.36	1.22E+01	uCi/g	I		RAW	Cs137	6.14E+08	5.51E+08	
B110	Cs137	4/1/90		1.36	1.22E+01	uCi/g	I		RAW	Cs137	6.13E+08	5.49E+08	
U110	Cs137	3/1/93	B08VD8	1.42	1.09E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.73E+08	5.49E+08	
TY103	Cs-137	8/21/85	31XC0000	1.7	10.8	uCi/gm	I	Sludge/Composite	Braun	Cs-137	6.79E+08	5.48E+08	
B110	Cs137	8/21/85					G	Sludge	Wastren	Cs137	6.79E+08	5.47E+08	
C112	Cs137	4/1/90		1.3	1.26E+01	uCi/g	I		RAW	Cs137	6.08E+08	5.45E+08	
C112	Cs137	3/1/93	B08VD8	1.42	1.08E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.67E+08	5.44E+08	
T107	Cs137	3/1/92	B08DM7	1.6	9.73E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.76E+08	5.40E+08	
U110	Cs137	4/1/90		1.3	1.25E+01	uCi/g	I		RAW	Cs137	5.99E+08	5.37E+08	
SX101	Cs137	3/1/93	B08V44	1.1	1.37E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.58E+08	5.35E+08	
S102	Cs-137	4/29/75	RAT-S102-1	1.3	17.3	uCi/gm	S	Solids	Braun	Cs-137	8.32E+08	5.29E+08	
B110	Cs137	4/29/75		1.3	1.73E+01	uCi/g	S	Coarse black crystal	RAW	Cs137	8.32E+08	5.29E+08	
B110	Cs137	4/17/75		1.3	1.73E+01	uCi/g	S	top layer	RAW	Cs137	8.32E+08	5.29E+08	
B110	Cs137	9/18/80			1.24E+01	uCi/g	S	H2O SOLUBLE	RAW	Cs137	7.34E+08	5.28E+08	
B110	Cs137	9/1/92	B08T63	1.6	9.40E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.56E+08	5.27E+08	
B110	Cs137	3/1/93	B08V44	1.1	1.35E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.49E+08	5.27E+08	
B110	Cs137	3/1/93	B08T22	1.2872727	1.15E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.48E+08	5.25E+08	
B110	Cs137	3/1/93	B08VFO	1.3833333	1.07E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.48E+08	5.25E+08	
BX107	Cs137	10/4/77	510		2.10E+04	uCi/L	S	solid, middle	RAW	Cs137	7.77E+08	5.23E+08	
BX107	Cs137	3/1/93	B08VFO	1.3833333	1.06E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.43E+08	5.20E+08	
B110	Cs137	11/16/73	T-476	1.1592	2.28E+04	uCi/L	O		RAW	Cs137	8.44E+08	5.19E+08	
BX107	Cs137	11/17/73	476		8.60E+04	uCi/gal	S	solids	RAW	Cs137	8.41E+08	5.17E+08	
BX107	Cs137	8/9/89	89-0729-A-1	1.355	1.15E+01	uCi/g	I	core 2	RAW	Cs137	5.77E+08	5.09E+08	
C112	Cs137	4/1/90		1.3	1.18E+01	uCi/g	I	PRIMARY	TCD	Cs137	5.68E+08	5.09E+08	
C112	Cs137	9/1/92	B08T63	1.6	9.07E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.37E+08	5.09E+08	
S106	Cs-137	8/23/74	RAT-S106-4	1.27	17.2	uCi/gm	A	Salts	Braun	Cs-137	8.08E+08	5.06E+08	
BX107	Cs137	8/21/74		1.27	1.72E+01	uCi/g	S		RAW	Cs137	8.08E+08	5.06E+08	
T107	Cs137	3/1/93	B08VD9	1.305	1.09E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.26E+08	5.05E+08	
S112	Cs137	8/9/89	89-0729-A-2	1.355	1.14E+01	uCi/g	I	core 2	RAW	Cs137	5.70E+08	5.03E+08	
S112	Cs137	4/1/90		1.3	1.16E+01	uCi/g	I	DUPLICATE	TCD	Cs137	5.58E+08	5.00E+08	
S102	Cs137	9/4/85		1.27	1.31E+01	uCi/g	I	Core Composite	RAW	Cs137	6.17E+08	4.98E+08	
S112	Cs137	8/9/89	89-0730-A-1	1.355	1.12E+01	uCi/g	I	core 2	RAW	Cs137	5.63E+08	4.97E+08	
S102	Cs137	8/9/89	89-0730-A-2	1.355	1.12E+01	uCi/g	I	core 2	RAW	Cs137	5.61E+08	4.96E+08	
BX112	Cs137	4/1/90		1.24	1.20E+01	uCi/g	I		RAW	Cs137	5.49E+08	4.92E+08	
C102	Cs137	4/1/90		1.3	1.13E+01	uCi/g	I	DUPLICATE	TCD	Cs137	5.45E+08	4.89E+08	
U110	Cs137	4/1/90		1.28	1.15E+01	uCi/g	I	PRIMARY	TCD	Cs137	5.45E+08	4.88E+08	
U110	Cs137	4/1/90		1.24	1.18E+01	uCi/g	I		RAW	Cs137	5.40E+08	4.84E+08	
T107	Cs137	12/4/78	1766	1.6	1.18E+01	uCi/g	S	water soluble	RAW	Cs137	6.99E+08	4.83E+08	
C112	Cs137	4/1/90		1.28	1.14E+01	uCi/g	I	DUPLICATE	TCD	Cs137	5.38E+08	4.82E+08	
T107	Cs137	3/1/92	B08DT4	1.6	8.66E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.13E+08	4.80E+08	
S105	Cs137	12/1/89		1.04	1.40E+01	uCi/g	I	PRIMARY	TCD	Cs137	5.39E+08	4.79E+08	
TY102	Cs-137	2/1/80	RAT-TY102-1	1.51	11.97	uCi/gm	A	Salts	Braun	Cs-137	6.69E+08	4.74E+08	
S105	Cs137	9/21/71		1.27	1.72E+01	uCi/g	A	salt	RAW	Cs137	8.08E+08	4.73E+08	
S105	Cs137	3/1/92	B08DN8	1.6	8.51E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	5.04E+08	4.72E+08	
TY102	Cs137	12/1/89		1.04	1.36E+01	uCi/g	I	DUPLICATE	TCD	Cs137	5.23E+08	4.66E+08	
U110	Cs137	3/1/93	B08VB9	1.19	1.10E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.84E+08	4.64E+08	
C112	Cs137	4/1/90		1.36	1.02E+01	uCi/g	I	PRIMARY	TCD	Cs137	5.15E+08	4.62E+08	
T107	Cs137	4/1/90		1.36	1.02E+01	uCi/g	I	DUPLICATE	TCD	Cs137	5.15E+08	4.61E+08	
C112	Cs137	4/1/90		1.3	1.07E+01	uCi/g	I	PRIMARY	TCD	Cs137	5.13E+08	4.60E+08	
SX105	Cs137	3/1/92	B08DM7	1.6	8.27E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.90E+08	4.59E+08	
S102	Cs137	9/18/80		1.45	1.18E+01	uCi/g	S	Water soluble	RAW	Cs137	6.33E+08	4.56E+08	
TY105	Cs-137	9/13/85	61XC0000		9.51	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.63E+08	4.55E+08	
C112	Cs137	4/1/90		1.21	1.12E+01	uCi/g	I		RAW	Cs137	5.03E+08	4.51E+08	
U110	Cs137	2/28/77		1.41	1.30E+01	uCi/g	A	Salt	RAW	Cs137	6.78E+08	4.50E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S111	Cs137	4/1/90		1.21	1.12E+01	uCi/g	I		RAW	Cs137	5.01E+08	4.49E+08	
TY102	Cs137	3/1/92	B08DM7	1.6	8.09E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.79E+08	4.49E+08	
C102	Cs-137	7/10/86	E1XCOOXX	1.351	10.9	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.45E+08	4.48E+08	
T102	Cs137	3/1/93	B08VD9	1.305	9.66E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.66E+08	4.47E+08	
TY101	Cs137	9/1/92	B08T69	1.6	7.95E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.71E+08	4.46E+08	
T107	Cs137	4/1/90		1.3	1.03E+01	uCi/g	I	DUPLICATE	TCD	Cs137	4.96E+08	4.45E+08	
C112	Cs137	2/14/79	1010-C	1.44	1.18E+01	uCi/g	S	solid	RAW	Cs137	6.29E+08	4.36E+08	
U110	Cs137	3/1/93	B08VR2	1.735	7.08E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.55E+08	4.36E+08	
S111	Cs137	3/1/93	B08VB9	1.19	1.03E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.54E+08	4.35E+08	
TY105	Cs-137	9/13/85	61XCOOOO	1.53	9.51	uCi/gm	I	Sludge/Composite	Braun	Cs-137	5.38E+08	4.35E+08	
C112	Cs137	9/13/85					G	Sludge	Wastren	Cs137	5.38E+08	4.34E+08	
C112	Cs137	8/1/85	61XC00XX	1.53	9.51E+00	uCi/g	I	Core Composite	RAW	Cs137	5.38E+08	4.33E+08	
T102	Cs137	3/1/93	B08VR2	1.735	6.97E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.47E+08	4.29E+08	
T107	Cs137	12/1/89		1.42	9.13E+00	uCi/g	I	PRIMARY	TCD	Cs137	4.80E+08	4.27E+08	
BX107	Cs-137	9/18/80	RAT-BX107-2	1.422	11.11	uCi/gm	G	Sludge	Braun	Cs-137	5.85E+08	4.21E+08	
TY102	Cs137	10/16/81			1.52E+04	uCi/L	S	solid/liquid interface	RAW	Cs137	5.62E+08	4.15E+08	
TY102	Cs137	3/1/93	B08VF0	1.3833333	8.26E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.23E+08	4.05E+08	
S111	Cs137	9/1/92	B08T16	1.3	8.81E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.24E+08	4.02E+08	
S111	Cs137	12/1/89		1.3	9.29E+00	uCi/g	I	PRIMARY	TCD	Cs137	4.47E+08	3.98E+08	
C112	Cs137	12/1/89		1.3	9.20E+00	uCi/g	I	DUPLICATE	TCD	Cs137	4.43E+08	3.94E+08	
SX104	Cs137	3/1/92	B08DY1	2	5.61E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	4.15E+08	3.89E+08	
C112	Cs137	9/1/92	B08T16	1.3	8.52E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.10E+08	3.88E+08	
TY103	Cs137	4/1/90		1.32	8.87E+00	uCi/g	I	PRIMARY	TCD	Cs137	4.33E+08	3.88E+08	
TY102	Cs137	4/1/90		1.34	8.65E+00	uCi/g	I	PRIMARY	TCD	Cs137	4.29E+08	3.85E+08	
S102	Cs137	4/1/90		1.34	8.63E+00	uCi/g	I	DUPLICATE	TCD	Cs137	4.28E+08	3.83E+08	
U107	Cs137	4/1/90		1.32	8.73E+00	uCi/g	I	DUPLICATE	TCD	Cs137	4.26E+08	3.82E+08	
S108	Cs137	12/1/89		1.42	8.15E+00	uCi/g	I	DUPLICATE	TCD	Cs137	4.28E+08	3.81E+08	
TY106	Cs137	4/1/90		1.36	8.44E+00	uCi/g	I	PRIMARY	TCD	Cs137	4.25E+08	3.81E+08	
S108	Cs137	3/1/92	B08DM7	1.6	6.79E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	4.02E+08	3.77E+08	
SX105	Cs137	3/1/92	B08DN8	1.6	6.63E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.92E+08	3.68E+08	
AX102	Cs137	3/1/93	B08VF0	1.3833333	7.39E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.78E+08	3.63E+08	
U-112	Cs137				0.0096	Cl/L	S		HTCE Inv.	Cs137		3.57E+08	
C201	Cs137	12/1/89		1.54	6.93E+00	uCi/g	I	DUPLICATE	TCD	Cs137	3.95E+08	3.51E+08	
C112	Cs137	12/4/78	4523	1.52	9.00E+00	uCi/g	S	Solids	RAW	Cs137	5.06E+08	3.50E+08	
B107	Cs137	8/9/89	90-0640-C-1	1.355	7.87E+00	uCi/g	I	core 2	RAW	Cs137	3.95E+08	3.49E+08	
B107	Cs137	4/1/90		1.33	7.87E+00	uCi/g	I	PRIMARY	TCD	Cs137	3.87E+08	3.47E+08	
U204	Cs137	4/1/90		1.37	7.64E+00	uCi/g	I	PRIMARY	TCD	Cs137	3.87E+08	3.47E+08	
U204	Cs137	8/9/89	90-0640-C-2	1.355	7.82E+00	uCi/g	I	core 2	RAW	Cs137	3.92E+08	3.46E+08	
U110	Cs137	4/1/90		1.36	7.65E+00	uCi/g	I	DUPLICATE	TCD	Cs137	3.85E+08	3.45E+08	
U110	Cs137	4/1/90		1.33	7.82E+00	uCi/g	I	DUPLICATE	TCD	Cs137	3.85E+08	3.45E+08	
S111	Cs137	4/1/90		1.36	7.58E+00	uCi/g	I	PRIMARY	TCD	Cs137	3.81E+08	3.42E+08	
S111	Cs137	6/1/92	B08SF0	1.3264	7.34E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.60E+08	3.39E+08	
B201	Cs137	6/1/92	B08SF0	1.3264	7.31E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.59E+08	3.38E+08	
C112	Cs137	4/1/90		1.37	7.41E+00	uCi/g	I	DUPLICATE	TCD	Cs137	3.75E+08	3.36E+08	
BX107	Cs137	6/1/92	B08SF0	1.3264	7.26E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.56E+08	3.36E+08	
S102	Cs137	6/1/92	B08SF0	1.3264	7.20E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.53E+08	3.33E+08	
S102	Cs137	3/1/92	B08DY1	2	4.77E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.53E+08	3.31E+08	
BX107	Cs137	3/1/92	B08DM7	1.6	5.76E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.41E+08	3.19E+08	
C201	Cs137	7/25/79		1.46	8.40E+00	uCi/g	S	Solids, Acid	RAW	Cs137	4.54E+08	3.18E+08	
C112	Cs137	3/1/93	B08VB9	1.19	7.43E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.27E+08	3.14E+08	
C112	Cs137	12/10/74		1.304	1.01E+01	uCi/g	A	Salt	RAW	Cs137	4.87E+08	3.07E+08	
C102	Cs137	12/10/74		1.304	1.01E+01	uCi/g	A	salt	RAW	Cs137	4.87E+08	3.07E+08	
S112	Cs-137	11/15/74	RAT-S112-1	1.304	10.1	uCi/gm	A	Salts	Braun	Cs-137	4.87E+08	3.07E+08	
C112	Cs137	4/29/75		1.3	1.30E+04	uCi/L	S	Coarse black crystal	RAW	Cs137	4.81E+08	3.06E+08	
B201	Cs137	11/15/74					K	Saltcake	Wastren	Cs137	4.86E+08	3.06E+08	
C112	Cs137	4/17/75		1.3	1.30E+04	uCi/L	S	Top layer(Coarse Black Crystal)	RAW	Cs137	4.81E+08	3.06E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Single-Shell Tank Solids [Sketch ES-VAL-CR08]
 ASA Value: 7.47E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
C112	Cs137	9/18/80			6.98E+00	uCi/g	S	Water soluble	RAW	Cs137	4.13E+08	2.97E+08		
B201	Cs137	6/17/87			5.92E+00	uCi/g	G	acid/parr	RAW	Cs137	3.51E+08	2.95E+08		
BX107	Cs137	12/1/89		1.48	6.03E+00	uCi/g	I	DUPLICATE	TCD	Cs137	3.30E+08	2.94E+08		
C102	Cs-137	12/1/86	RAT-C102-2		5.923	uCi/gm	I	Composite	Braun	Cs-137	3.51E+08	2.91E+08		
B-106	Cs137				0.0078	ci/L	S		HTCE Inv.	Cs137		2.90E+08		
B-103	Cs137				0.0076	ci/L	S		HTCE Inv.	Cs137		2.81E+08		
S110	Cs137	12/1/89		1.48	5.73E+00	uCi/g	I	PRIMARY	TCD	Cs137	3.14E+08	2.79E+08		
TY102	Cs137	3/1/93	B08VB9	1.19	6.59E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.90E+08	2.78E+08		
C112	Cs137	3/1/92	B08DN8	1.6	5.00E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.96E+08	2.77E+08		
C112	Cs137	3/1/93	B08VB9	1.19	6.39E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.81E+08	2.70E+08		
B-105	Cs137				0.0072	ci/L	S		HTCE Inv.	Cs137		2.65E+08		
B-102	Cs137				0.0070	ci/L	S		HTCE Inv.	Cs137		2.61E+08		
S105	Cs-137	8/23/74	RAT-S105-6	1.261	8.9	uCi/gm	S	Solids	Braun	Cs-137	4.15E+08	2.60E+08		
C112	Cs137	8/23/74					G	Sludge	Wastren	Cs137	4.15E+08	2.60E+08		
B201	Cs137	8/21/74		1.26	8.90E+00	uCi/g	S	Coarse yellow crystal	RAW	Cs137	4.15E+08	2.60E+08		
S101	Cs137	7/26/74		1.261	8.90E+00	uCi/g	A	salt	RAW	Cs137	4.15E+08	2.59E+08		
B-109	Cs137				0.0068	ci/L	S		HTCE Inv.	Cs137		2.51E+08		
S112	Cs137	2/1/80		1.51	6.32E+00	uCi/g	S	H2O INSOLUBLE	RAW	Cs137	3.53E+08	2.51E+08		
C112	Cs137	12/1/89		1.29	5.69E+00	uCi/g	I	PRIMARY	TCD	Cs137	2.72E+08	2.42E+08		
C112	Cs137	3/1/92	B08DM7	1.6	4.34E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.57E+08	2.41E+08		
T104	Cs137	3/1/93	B08VB9	1.19	5.67E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.50E+08	2.39E+08		
T104	Cs137	3/1/92	B08DN6	1.3	5.26E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.53E+08	2.37E+08		
C112	Cs137	10/4/74		1.71	1.02E+04	uCi/L	S	Hard chunk throughout	RAW	Cs137	3.77E+08	2.37E+08		
S102	Cs-137	4/29/75	RAT-S102-2	1.52	6.6	uCi/gm	G	Sludge	Braun	Cs-137	3.71E+08	2.36E+08		
U203	Cs137	4/29/75		1.52	6.60E+00	uCi/g	S	Fine yellow crystal	RAW	Cs137	3.71E+08	2.36E+08		
SX105	Cs-137	6/1/74	RAT-SX105-1B	1.71	10200	uCi/l	G	Sludge	Braun	Cs-137	3.77E+08	2.35E+08		
B201	Cs137	3/1/92	B08DN6	1.3	5.17E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.49E+08	2.33E+08		
B201	Cs137	12/1/89		1.54	4.55E+00	uCi/g	I	PRIMARY	TCD	Cs137	2.59E+08	2.31E+08		
C201	Cs-137	12/4/78	T-3421	1.16	7.66	uCi/gm	G	Sludge	Braun	Cs-137	3.29E+08	2.27E+08		
S111	Cs-137	5/29/74	RAT-S111-2	1.348	7.29	uCi/gm	G	Sludge	Braun	Cs-137	3.64E+08	2.26E+08		
B201	Cs137	5/29/74		1.348	7.29E+00	uCi/g	G	Sludge	RAW	Cs137	3.64E+08	2.26E+08		
C106	Cs137	2/1/80		1.51	5.65E+00	uCi/g	S	H2O SOLUBLE	RAW	Cs137	3.16E+08	2.24E+08		
C106	Cs137	3/1/93	B08732	1.3166667	4.74E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.31E+08	2.21E+08		
B201	Cs137	9/18/80			5.19E+00	uCi/g	S	H2O SOLUBLE	RAW	Cs137	3.07E+08	2.21E+08		
B-110	Cs137				0.0060	ci/L	S		HTCE Inv.	Cs137		2.21E+08		
TY103	Cs137	3/1/93	B08TZ3	0.95	6.43E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.26E+08	2.17E+08		
S111	Cs137	3/1/92	B08DN8	1.6	3.87E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.29E+08	2.15E+08		
S111	Cs137	12/1/89		1.29	4.86E+00	uCi/g	I	DUPLICATE	TCD	Cs137	2.32E+08	2.06E+08		
T104	Cs137	5/29/74		1.21	7.29E+00	uCi/g	G	sludge	RAW	Cs137	3.26E+08	2.03E+08		
U110	Cs137	3/1/92	B08DT4	1.6	3.65E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.16E+08	2.02E+08		
U102	Cs137	3/1/92	B08DM7	1.6	3.55E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.10E+08	1.97E+08		
B-108	Cs137				0.0053	ci/L	S		HTCE Inv.	Cs137		1.96E+08		
U110	Cs137	3/1/93	B08732	1.3166667	4.09E+00	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.99E+08	1.91E+08		
B202	Cs137	3/1/93	B08TZ3	0.95	5.85E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.99E+08	1.90E+08		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Europium 154 Single-Shell Tank Liquids [Sketch ES-VAL-CR09]
ASA Value: 2.7E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C105	Eu154	2/1/91			3820	uCi/g	U	N2O2/Zr	RAW	Eu154	1.55E+11	1.14E+11	2
C105	Eu154	2/1/91			2680	uCi/g	U	KOH/Ni	RAW	Eu154	1.09E+11	8.01E+10	2
C106	Eu154	4/1/90	RAT-C106-4B		6.68	ugm/gm	U	Unknown	Braun	Eu154	3.94E+10	2.71E+10	2
C105	Eu154	4/1/90	RAT-C105-4B		3.25	ugm/gm	U	Unknown	Braun	Eu154	1.92E+10	1.32E+10	2
ASA Value: 2.7E+09 Bq/L													
TX104	Eu154/155	4/19/76		1.4			P	Supernatant	Wastren	Eu154	1.13E+10	2.73E+09	*
TX118	Eu154	4/10/75	T-3491	1.22	212000	uCi/gal	L		RAW	Eu154	2.07E+09	4.36E+08	
C106	Eu154	4/1/90	1		7970	uCi/kg	L		RAW	Eu154	3.24E+08	2.23E+08	
AX102	Eu154	11/14/88					P	Supernate	Wastren	Eu154	2.48E+08	1.53E+08	
SX106	Eu154	2/25/77	RAT-SX106-1	1.458	9640	uCi/l	P	Supernate	Braun	Eu154	3.57E+08	8.70E+07	
AX102	Eu154	11/14/88	RAT-AX102-3		3500	uCi/l	P	Supernate	Braun	Eu154	1.30E+08	7.98E+07	
AX102	Eu154	11/14/88			3500	uCi/L	P	Supernatant	RAW	Eu154	1.30E+08	7.98E+07	
C106	Eu154	3/15/76	T-3294	1.16	35300	uCi/gal	P	Supernate	Braun	Eu154	3.45E+08	7.81E+07	
C106	Eu154	3/15/76	T-3294	1.162	35300	uCi/gal	O	Other	RAW	Eu154	3.45E+08	7.81E+07	
C104	Eu154	12/18/75	T-769	1.16	32800	uCi/gal	P	Supernate	Braun	Eu154	3.21E+08	7.12E+07	
C104	Eu154	12/1/75	T-225	1.164	23700	uCi/gal	P	Supernate	Braun	Eu154	2.32E+08	5.12E+07	
C104	Eu154	12/1/75	T-225	1.164	23700	uCi/gal	L	no solids	RAW	Eu154	2.32E+08	5.12E+07	
C104	Eu154	10/6/75	T-8583	1.227	21300	uCi/gal	P	Supernate	Braun	Eu154	2.08E+08	4.55E+07	
C104	Eu154	10/6/75	T-8583	1.227	21300	uCi/gal	O		RAW	Eu154	2.08E+08	4.55E+07	
T105	Eu154	5/28/93	B08WT3	0.9933333	1.24	uCi/g	L	PRIMARY RESULT	TCD	Eu154	4.56E+07	4.02E+07	
C104	Eu154	12/5/75	T-374	1.137	14500	uCi/gal	P	Supernate	Braun	Eu154	1.42E+08	3.14E+07	
C104	Eu154	12/5/75	T-374	1.137	14500	uCi/gal	O		RAW	Eu154	1.42E+08	3.14E+07	
C106	Eu154	9/15/75	T-8059	1.18	13800	uCi/gal	P	Supernate	Braun	Eu154	1.35E+08	2.93E+07	
TX118	Eu154	6/6/75	T-5179	1.18	13400	uCi/gal	L		RAW	Eu154	1.31E+08	2.79E+07	
TX118	Eu154	2/11/76	T-2258	1.37	12500	uCi/gal	P	Supernate	Braun	Eu154	1.22E+08	2.75E+07	
TX118	Eu154	2/11/76	T-2258	1.373	12500	uCi/gal	O	NO SOLIDS	RAW	Eu154	1.22E+08	2.75E+07	
C106	Eu154	9/8/75	T-7808	1.14	12600	uCi/gal	P	Supernate	Braun	Eu154	1.23E+08	2.68E+07	
C106	Eu154	9/8/75	T-7808	1.14	12600	uCi/gal	O	Other	RAW	Eu154	1.23E+08	2.68E+07	
TX118	Eu154	12/1/75	T-267	1.23	11800	uCi/gal	P	Supernate	Braun	Eu154	1.15E+08	2.55E+07	
TX101	Eu154	7/24/75	T-6426	1.168	11800	uCi/gal	O	NO SOLIDS	RAW	Eu154	1.15E+08	2.48E+07	
TX118	Eu154	6/9/75	T-5253	1.08	11600	uCi/gal	P	Supernate	Braun	Eu154	1.13E+08	2.41E+07	
TX118	Eu154	6/9/75	T-5253	1.08	11600	uCi/gal	L		RAW	Eu154	1.13E+08	2.41E+07	
U102	Eu154	3/1/76	RAT-U102-1	1.27	2890	uCi/l	P	Supernate	Braun	Eu154	1.07E+08	2.41E+07	
U102	Eu154	3/1/76	RAT-U102-1	1.38	2890	uCi/l	P	Supernate	Braun	Eu154	1.07E+08	2.41E+07	
U102	Eu154	3/1/76	RAT-U102-1	1.6	2890	uCi/l	P	Supernate	Braun	Eu154	1.07E+08	2.41E+07	
U102	Eu154	3/1/76		1.27	2890	uCi/l	P	Supernatant	RAW	Eu154	1.07E+08	2.41E+07	
SX106	Eu154	12/6/74	T-8041	1.004	11600	uCi/gal	P	Supernate	Braun	Eu154	1.13E+08	2.32E+07	
SX106	Eu154	12/6/74	T-8041	1.004	11600	uCi/gal	L	No solids	RAW	Eu154	1.13E+08	2.32E+07	
TX118	Eu154	8/11/75	T-6959	1.1653	10400	uCi/gal	P	Supernate	Braun	Eu154	1.02E+08	2.19E+07	
TX118	Eu154	8/11/75	T-6959	1.1653	10400	uCi/gal	O	NO SOLIDS	RAW	Eu154	1.02E+08	2.19E+07	
TX118	Eu154	9/8/75	T-7817	1.16	10000	uCi/gal	P	Supernate	Braun	Eu154	9.77E+07	2.12E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Europium 154 Single-Shell Tank Liquids [Sketch ES-VAL-CR09]
ASA Value: 2.7E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	ID
TX118	Eu154	9/8/75	T-7817	1.1586	10000	uCi/gal	O	NO SOLIDS	RAW	Eu154	9.77E+07	2.12E+07	
TX118	Eu154	5/29/75	T-4900	1.2	10200	uCi/gal	P	Supernate	Braun	Eu154	9.97E+07	2.12E+07	
TX118	Eu154	9/2/75	T-7617	1.24	9880	uCi/gal	P	Supernate	Braun	Eu154	9.66E+07	2.10E+07	
TX118	Eu154	9/2/75	T-7617	1.2367	9880	uCi/gal	O	NO SOLIDS	RAW	Eu154	9.66E+07	2.10E+07	
TX118	Eu154	12/28/75	T-1036	1.18	8980	uCi/gal	P	Supernate	Braun	Eu154	8.78E+07	1.95E+07	
TX118	Eu154	12/28/75	T-1036	1.178	8980	uCi/gal	O		RAW	Eu154	8.78E+07	1.95E+07	
SX106	Eu154	4/18/78	8301	1.33	1970	uCi/l	P	Supernate	Braun	Eu154	7.29E+07	1.95E+07	
SX106	Eu154	4/18/78	8301	1.37	1970	uCi/l	P	Supernate	Braun	Eu154	7.29E+07	1.95E+07	
SX106	Eu154	4/18/78		1.37	1970	uCi/l	P	Supernatant	RAW	Eu154	7.29E+07	1.95E+07	
TX118	Eu154	11/24/75	T-87	1.255	8390	uCi/gal	P	Supernate	Braun	Eu154	8.20E+07	1.81E+07	
TX118	Eu154	11/24/75	T-87	1.255	8390	uCi/gal	O		RAW	Eu154	8.20E+07	1.81E+07	
TX118	Eu154	7/21/75	T-6309	1.16	6510	uCi/gal	P	Supernate	Braun	Eu154	6.36E+07	1.37E+07	
TX118	Eu154	7/21/75	T-6309	1.16	6510	uCi/gal	U		RAW	Eu154	6.36E+07	1.37E+07	
C103	Eu154	3/28/75	T-3097	1.1434	6280	uCi/gal	P	Supernate	Braun	Eu154	6.14E+07	1.29E+07	
A106	Eu154	6/25/74	T-5316		6580	uCi/gal	P	Supernate	Braun	Eu154	6.43E+07	1.27E+07	
A106	Eu154	6/25/74	T-5316		6580	uCi/gal	O	Other	RAW	Eu154	6.43E+07	1.27E+07	
TX118	Eu154	12/15/75	T-681	1.31	5200	uCi/gal	P	Supernate	Braun	Eu154	5.08E+07	1.13E+07	
TX118	Eu154	12/15/75	T-681	1.308	5200	uCi/gal	O		RAW	Eu154	5.08E+07	1.13E+07	
C103	Eu154	5/1/75	T-4073	1.16	5430	uCi/gal	P	Supernate	Braun	Eu154	5.31E+07	1.12E+07	
Minimum Plot Limit: 1.00E+07 Bq/L													
C103	Eu154	1/24/75	T-1685	1.1729	4810	uCi/gal	P	Supernate	Braun	Eu154	4.70E+07	9.72E+06	
C103	Eu154	1/24/75	T-1685	1.1729	4810	uCi/gal	O	Other	RAW	Eu154	4.70E+07	9.72E+06	
T105	Eu154	5/28/93	B08WT3	0.9933333	0.295	uCi/g	L	DUPLICATE RESULT	TCD	Eu154	1.08E+07	9.56E+06	
TX118	Eu154	9/18/75	T-7177	1.12	4340	uCi/gal	P	Supernate	Braun	Eu154	4.24E+07	9.24E+06	
TX118	Eu154	8/18/75	T-7177	1.1225	4340	uCi/gal	O	NO SOLIDS	RAW	Eu154	4.24E+07	9.17E+06	
A101	Eu154	6/25/74	T-5315		4690	uCi/gal	O	Other	RAW	Eu154	4.58E+07	9.05E+06	
TX101	Eu154	10/5/76	T-7478	1.189	3890	uCi/gal	O	NO SOLIDS	RAW	Eu154	3.80E+07	8.99E+06	
S102	Eu154	9/19/75	4963	1.4	4100	uCi/gal	L	Solid unknown	RAW	Eu154	4.01E+07	8.73E+06	
S102	Eu154	6/2/75	T-4963	1.4	4100	uCi/gal	P	Supernate	Braun	Eu154	4.01E+07	8.52E+06	
A102	Eu154	8/19/75	T-7252	1.087	2950	uCi/gal	P	Supernate	Braun	Eu154	2.88E+07	6.24E+06	
A102	Eu154	8/19/75	T-7252	1.087	2950	uCi/gal	L	no solids	RAW	Eu154	2.88E+07	6.24E+06	
TX118	Eu154	9/29/75	T-8404	1.229	2740	uCi/gal	P	Supernate	Braun	Eu154	2.68E+07	5.84E+06	
T108	Eu154	5/13/74	T-3391	1.1823	2910	uCi/gal	P	Supernate	Braun	Eu154	2.84E+07	5.57E+06	
T108	Eu154	5/13/74		1.1823	2910	uCi/gal	L	NO SOLIDS	RAW	Eu154	2.84E+07	5.57E+06	
TX118	Eu154	4/10/75	T-3491	1.22	2200	uCi/gal	P	Supernate	Braun	Eu154	2.15E+07	4.52E+06	
TX115	Eu154	1/17/74	T-834		582	uCi/l	P	Supernate	Braun	Eu154	2.15E+07	4.11E+06	
TX115	Eu154	1/17/74	T-834		582	uCi/l	U		RAW	Eu154	2.15E+07	4.11E+06	
BY109	Eu154	3/22/73	T-6123	1.316	1940	uCi/gal	O	Other	RAW	Eu154	1.90E+07	3.39E+06	
C104	Eu154	11/19/74	T-5312	1.1539	1360	uCi/gal	P	Supernate	Braun	Eu154	1.33E+07	2.71E+06	
S102	Eu154	7/25/75	T-6453	1.2861	1210	uCi/gal	P	Supernate	Braun	Eu154	1.18E+07	2.54E+06	
S102	Eu154	7/25/75	6453	1.2861	1210	uCi/gal	L	No solid	RAW	Eu154	1.18E+07	2.54E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Liquids [Sketch ES-VAL-CR09]
 ASA Value: 2.7E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX118	Eu154	4/24/75	T-3909	1.2257	1070	uCi/gal	P	Supernate	Braun	Eu154	1.05E+07	2.21E+06	
TX118	Eu154	4/24/75	T-3909	1.2257	1070	uCi/gal	O	NO SOLIDS	RAW	Eu154	1.05E+07	2.21E+06	
BX103	Eu154	4/14/75	T-3635	1.1383	1010	uCi/gal	P	Supernate	Braun	Eu154	9.87E+06	2.08E+06	
BX103	Eu154	4/14/75	T-3635	1.1383	1010	uCi/gal	L	no solids	RAW	Eu154	9.87E+06	2.08E+06	
S102	Eu154	8/25/75	T-7340	1.395	939	uCi/gal	P	Supernate	Braun	Eu154	9.18E+06	1.99E+06	
S102	Eu154	8/25/75	7340	1.395	939	uCi/gal	L	No solids	RAW	Eu154	9.18E+06	1.99E+06	
T103	Eu154	7/24/73	T-7869		210	uCi/l	U	Unknown	Braun	Eu154	7.77E+06	1.43E+06	
C106	Eu154	1/24/77		1.21	132	uCi/L	P	supernatant	RAW	Eu154	4.88E+06	1.18E+06	
C106	Eu154	10/10/74	RAT-C106-2	1.21	132	uCi/l	P	Supernate	Braun	Eu154	4.88E+06	9.87E+05	
C106	Eu154	10/10/74		1.21	132	uCi/L	P	supernatant	RAW	Eu154	4.88E+06	9.87E+05	
C110	Eu154	4/23/92	B08VM5	1.0033333	0.0192	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	7.10E+05	5.74E+05	
C110	Eu154	4/23/92	B08VM5	1.0033333	0.0192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+05	5.74E+05	
T102	Eu154	7/24/73	T-7892		69.9	uCi/l	U	Unknown	Braun	Eu154	2.59E+06	4.75E+05	
T102	Eu154	7/24/73	T-7892		69.6	uCi/L	L	No Solids	RAW	Eu154	2.58E+06	4.73E+05	
T102	Eu154	7/20/73	RAT-T102-1		69.6	uCi/l	U	Unknown	Braun	Eu154	2.58E+06	4.73E+05	
C110	Eu154	4/23/92	B08VH6	1.1833333	0.0061	uCi/g	L	PRIMARY RESULT	TCD	Eu154	2.66E+05	2.15E+05	
C110	Eu154	4/23/92	B08VP9	1.1	0.0055	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	2.04E+05	1.65E+05	
C110	Eu154	4/23/92	B08VP9	1.1	0.0055	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	2.04E+05	1.65E+05	
C110	Eu154	4/23/92	B08VH6	1.1833333	0.0044	uCi/g	L	DUPLICATE RESULT	TCD	Eu154	1.93E+05	1.56E+05	
T107	Eu154	3/1/93	B08V58	1.2	0.0042	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	1.57E+05	1.35E+05	
T107	Eu154	3/1/93	B08V58	1.2	0.004	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	1.48E+05	1.28E+05	
C110	Eu154	4/23/92	B08VM5	1.0033333	0.0023	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	8.47E+04	6.85E+04	
C110	Eu154	4/23/92	B08VP9	1.1	0.0023	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	8.47E+04	6.85E+04	
C110	Eu154	4/23/92	B08VH6	1.1833333	0.0023	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	8.47E+04	6.85E+04	
C110	Eu154	4/23/92	B08VM5	1.0033333	0.0021	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.59E+04	6.13E+04	
C110	Eu154	4/23/92	B08VP9	1.1	0.0021	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.59E+04	6.13E+04	
C110	Eu154	4/23/92	B08VH6	1.1833333	0.0021	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.59E+04	6.13E+04	
T107	Eu154	3/1/93	B08V16	1.02	0.0014	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	5.33E+04	4.61E+04	
T107	Eu154	3/1/93	B08V16	1.02	0.0013	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	4.85E+04	4.19E+04	
T107	Eu154	3/1/93	B08VB5	1.105	0.0006	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	2.04E+04	1.76E+04	
T107	Eu154	3/1/93	B08VB5	1.105	0.0005	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	1.96E+04	1.69E+04	
T104	Eu154	8/26/92	B08TQ7	1.1	0.0003	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	1.28E+04	1.07E+04	
T104	Eu154	8/26/92	B08TQ7	1.1	0.0003	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	1.27E+04	1.05E+04	
TX118	Eu154	6/6/75	T-5179	1.18	1.34	uCi/gal	P	Supernate	Braun	Eu154	1.31E+04	2.79E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C107	Eu154	8/2/77	T-8110-10		0.00876	moles/l	G	Sludge	Braun	Eu154	1.91E+12	4.83E+11	14
ASA Value: 6.6E+09 Bq/L													16
AX104	Eu154/155	9/15/77					G	Sludge	Wastren	Eu154	2.52E+10	6.42E+09	*16
AX104	Eu154	10/14/74	RAT-AX104-1	1.61	0.51	Ci/l	G	Sludge	Braun	Eu154	1.89E+10	3.82E+09	
AX104	Eu154	10/14/74		1.61	0.51	Ci/L	G	sludge	RAW	Eu154	1.89E+10	3.82E+09	
AX104	Eu154	7/10/74		1.609	0.51	Ci/L	G	sludge	RAW	Eu154	1.89E+10	3.74E+09	
A105	Eu154	1/12/72	RAT-A105-1B	1.54	290	uCi/gm	S	Solids	Braun	Eu154	1.65E+10	2.69E+09	
AX102	Eu154	9/25/74	RAT-AX102-2	1.57	351000	uCi/l	G	Sludge	Braun	Eu154	1.30E+10	2.62E+09	
AX102	Eu154	9/25/74		1.57	351000	uCi/L	G	sludge	RAW	Eu154	1.30E+10	2.62E+09	
AX104	Eu154	9/15/77	48-JS#22&24-AL230	1.8	0.26	Ci/L	G	sludge	RAW	Eu154	9.62E+09	2.45E+09	
A105	Eu154	1/12/72	RAT-A105-2	1.43	160	uCi/gm	R	Slurry	Braun	Eu154	8.47E+09	1.38E+09	
A102	Eu154	1/16/73		1.62	0.00011	Ci/g	G	sludge	RAW	Eu154	6.71E+09	1.18E+09	
C108	Eu154	7/1/77	5	2.44	50410	uCi/kg	O		RAW	Eu154	4.55E+09	1.14E+09	
A105	Eu154/155	1/12/75					G	Sludge	Wastren	Eu154	4.84E+09	9.98E+08	
A104	Eu154	10/4/74		1.64	130000	uCi/L	G	Sludge	RAW	Eu154	4.81E+09	9.71E+08	
A104	Eu154	9/4/74	RAT-A104-1	1.64	130000	uCi/l	G	Sludge	Braun	Eu154	4.81E+09	9.65E+08	
A104	Eu154/155	9/4/74					G	Sludge	Wastren	Eu154	4.81E+09	9.65E+08	
A105	Eu154	1/12/72	RAT-A105-1A	1.54	85	uCi/gm	S	Solids	Braun	Eu154	4.84E+09	7.88E+08	
SX115	Eu154	3/10/75	RAT-SX115-1	1.55	92500	uCi/l	G	Sludge	Braun	Eu154	3.42E+09	7.15E+08	
SX115	Eu154	3/10/75		1.55	92500	uCi/L	S	Dry	RAW	Eu154	3.42E+09	7.15E+08	
SX115	Eu154/155	3/10/75					G	Sludge	Wastren	Eu154	3.42E+09	7.14E+08	
C104	Eu154	8/23/77	9172-B		70000	uCi/l	G	Sludge	Braun	Eu154	2.59E+09	6.57E+08	
C104	Eu154	8/23/77	9172		70000	uCi/l	G	sludge	RAW	Eu154	2.59E+09	6.57E+08	
SX107	Eu154/155	1/29/77					G	Sludge	Wastren	Eu154	1.80E+09	4.37E+08	
C105	Eu154	11/21/72			24	uCi/g	G	sludge	RAW	Eu154	1.42E+09	2.47E+08	
C105	Eu154	11/21/72	RAT-C105-1	1.52	24	uCi/gm	G	Sludge	Braun	Eu154	1.35E+09	2.35E+08	
C112	Eu154	3/1/92	B08DY1	2	2.02	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.49E+08	1.19E+08	
C112	Eu154	3/1/92	B08DY1	2	2	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.48E+08	1.18E+08	
C104	Eu154	8/23/77	9172-A		12000	uCi/l	G	Sludge	Braun	Eu154	4.44E+08	1.13E+08	
C104	Eu154	8/23/77	9172		12000	uCi/l	G	sludge	RAW	Eu154	4.44E+08	1.13E+08	
SX107	Eu154	1/29/77	1345	1.33	12200	uCi/l	A	Salts	Braun	Eu154	4.51E+08	1.09E+08	
SX107	Eu154	1/29/77	1345	1.33	12200	uCi/L	A	SALT	RAW	Eu154	4.51E+08	1.09E+08	
C112	Eu154	3/1/92	B08DY1	2	1.76	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.30E+08	1.04E+08	
C112	Eu154	3/1/92	B08DY1	2	1.75	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.30E+08	1.04E+08	
C112	Eu154	3/1/92	B08DY1	2	1.64	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.21E+08	9.70E+07	
T105	Eu154	5/28/93	B08WT2	0.89	3.3	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.09E+08	9.58E+07	
C112	Eu154	3/1/92	B08DY1	2	1.53	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.13E+08	9.05E+07	
SX108	Eu154	4/18/78	8301	1.37	6.56	uCi/gm	S	Supernate/Solids	Braun	Eu154	3.33E+08	8.88E+07	
C112	Eu154	3/1/92	B08DM7	1.6	1.84	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.09E+08	8.71E+07	
SX108	Eu154	4/18/78	8301	1.33	6.56	uCi/gm	S	Supernate/Solids	Braun	Eu154	3.23E+08	8.62E+07	
C112	Eu154	3/1/92	B08DM7	1.6	1.78	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.05E+08	8.42E+07	
T105	Eu154	5/28/93	B08WT2	0.89	2.7	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.89E+07	7.84E+07	
SX106	Eu154	4/18/78		1.33	5.5	uCi/g	S	Solids(KOH Fusion)	RAW	Eu154	2.71E+08	7.23E+07	
C104	Eu154	12/18/75	T-769	1.16	32800	uCi/gal	D	suspended solids	RAW	Eu154	3.21E+08	7.12E+07	
C107	Eu154	9/26/77	T-510-33		7400	uCi/l	G	Sludge	Braun	Eu154	2.74E+08	6.99E+07	
C107	Eu154	9/26/77	AL#3143/9144		7400	uCi/L	S	solid	RAW	Eu154	2.74E+08	6.99E+07	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C112	Eu154	3/1/92	B08DT4	1.6	1.25	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.40E+07	5.91E+07	
T107	Eu154	3/1/93	B08VD8	1.42	1.21	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.38E+07	5.50E+07	
C112	Eu154	3/1/92	B08DM7	1.6	1.07	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.33E+07	5.06E+07	
B110	Eu154	8/9/89	89-0466-A-2	1.355	1.453	uCi/g	I	core 2	RAW	Eu154	7.28E+07	4.76E+07	
B110	Eu154	8/9/89	89-0466-A-1	1.355	1.443	uCi/g	I	core 2	RAW	Eu154	7.23E+07	4.72E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.926	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.48E+07	4.38E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.921	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.45E+07	4.36E+07	
T107	Eu154	3/1/93	B08VD8	1.42	0.944	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.96E+07	4.29E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.896	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.30E+07	4.24E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.864	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.11E+07	4.09E+07	
T105	Eu154	5/28/93	B08WT4	1.745	0.71	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.58E+07	4.04E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.828	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.89E+07	3.91E+07	
B110	Eu154	8/9/89	89-0465-A-1	1.355	1.174	uCi/g	I	core 2	RAW	Eu154	5.89E+07	3.84E+07	
T105	Eu154	10/26/93	RAT-T105-2A	0.89	1.24	uCi/gm	G	Sludge/Composite	Braun	Eu154	4.08E+07	3.72E+07	
B110	Eu154	8/9/89	89-0465-A-2	1.355	1.135	uCi/g	I	core 2	RAW	Eu154	5.69E+07	3.72E+07	
B110	Eu154	4/1/90		1.24	1.174	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	5.39E+07	3.70E+07	
B110	Eu154	4/1/90		1.24	1.135	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	5.21E+07	3.58E+07	
C109	Eu154	9/1/92	B08T15	1.2	0.954	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.24E+07	3.52E+07	
C109	Eu154	9/1/92	B08T17	1.2	0.949	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.21E+07	3.50E+07	
C109	Eu154	9/1/92	B08T15	1.2	0.81	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.60E+07	2.99E+07	
C108	Eu154	9/15/75	T-8059	1.8	13800	uCi/gal	G	sludge	RAW	Eu154	1.35E+08	2.93E+07	
C112	Eu154	3/1/92	B08DM6	1.5	0.587	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.26E+07	2.60E+07	
T105	Eu154	5/28/93	B08WT4	1.745	0.438	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.83E+07	2.49E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.519	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.07E+07	2.46E+07	
B107	Eu154	1/19/78					G	Sludge	Wastren	Eu154	1.03E+08	2.30E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.478	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.83E+07	2.26E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.476	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.82E+07	2.25E+07	
C109	Eu154	9/1/92	B08T17	1.2	0.609	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.70E+07	2.25E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.467	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.78E+07	2.21E+07	
TX118	Eu154	5/29/75	T-4900	1.2	10200	uCi/gal	D	Suspended Solids	RAW	Eu154	9.97E+07	2.12E+07	
T102	Eu154	3/1/93	B08732	1.3166667	0.497	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.42E+07	2.09E+07	
T102	Eu154	3/1/93	B08732	1.3166667	0.482	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.35E+07	2.03E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.426	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.52E+07	2.02E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.504	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.42E+07	1.94E+07	
C112	Eu154	3/1/92	B08DM7	1.6	0.4	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.37E+07	1.89E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.48	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.31E+07	1.85E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.435	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.09E+07	1.87E+07	
C112	Eu154	3/1/92	B08DM6	1.5	0.373	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.07E+07	1.65E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.423	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.03E+07	1.63E+07	
T107	Eu154	3/1/93	B08V39	1.57	0.317	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.84E+07	1.59E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.412	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.98E+07	1.58E+07	
C112	Eu154	3/1/92	B08DN6	1.3	0.41	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.97E+07	1.58E+07	
T107	Eu154	3/1/93	B08V39	1.57	0.31	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.80E+07	1.56E+07	
S104	Eu154	8/2/92			0.317	uCi/g	S		RAW	Eu154	1.88E+07	1.55E+07	
S104	Eu154	8/1/92	B08TF6	1.6	0.317	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.88E+07	1.55E+07	
T105	Eu154	5/28/93	B08WT4	1.745	0.247	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.59E+07	1.41E+07	
SX106	Eu154	4/18/78		1.33	1.06	uCi/g	S	Solids(Water Soluble)	RAW	Eu154	5.22E+07	1.39E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Eu154	4/1/90		1.36	0.391	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	1.97E+07	1.35E+07	
B110	Eu154	4/1/90		1.36	0.384	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	1.93E+07	1.33E+07	
S104	Eu154	8/2/92			0.269	uCi/g	S		RAW	Eu154	1.69E+07	1.32E+07	
S104	Eu154	8/1/92	B08TF7	1.6	0.269	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.69E+07	1.32E+07	
T105	Eu154	6/28/93	B08WT4	1.745	0.218	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.41E+07	1.24E+07	
B110	Eu154	4/1/90		1.33	0.3647	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	1.79E+07	1.23E+07	
C109	Eu154	9/1/92	B08T63	1.6	0.25	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.48E+07	1.23E+07	
B110	Eu154	8/9/89	89-1251-A-2	1.355	0.3647	uCi/g	I	core 2	RAW	Eu154	1.83E+07	1.19E+07	
C109	Eu154	9/1/92	B08T63	1.6	0.24	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.42E+07	1.18E+07	
S104	Eu154	8/2/92			0.237	uCi/g	S		RAW	Eu154	1.40E+07	1.16E+07	
S104	Eu154	8/1/92	B08TF6	1.6	0.237	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.40E+07	1.16E+07	
S104	Eu154	8/2/92			0.235	uCi/g	S		RAW	Eu154	1.39E+07	1.15E+07	
S104	Eu154	8/1/92	B08TF7	1.6	0.235	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.39E+07	1.15E+07	
B111	Eu154	4/15/93	93-4312H1		0.22	uCi/gm	G	Sludge	Braun	Eu154	1.30E+07	1.14E+07	
C103	Eu154	5/1/75	T-4073	1.16	5430	uCi/gal	O	Other	RAW	Eu154	5.31E+07	1.12E+07	
B111	Eu154	10/1/91	B08XC1	1.6	0.234	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.39E+07	1.07E+07	
B111	Eu154	10/1/91	B08XC1	1.6	0.227	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.34E+07	1.04E+07	
S111	Eu154/155	9/18/80					G	Sludge	Wastren	Eu154	3.21E+07	1.04E+07	
B111	Eu154	10/1/91	B08XC0	1.6	0.22	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.30E+07	1.01E+07	
Minimum Plot Limit: 1.00E+07 Bq/L													
B110	Eu154	8/9/89	89-1252-A-2	1.355	0.2919	uCi/g	I	core 2	RAW	Eu154	1.46E+07	9.55E+06	
B110	Eu154	4/1/90		1.33	0.267	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	1.31E+07	9.03E+06	
B111	Eu154	3/8/93	92-04062H-1T		0.172	uCi/gm	G	Sludge	Braun	Eu154	1.02E+07	8.82E+06	
B110	Eu154	8/9/89	89-1251-A-1	1.355	0.267	uCi/g	I	core 2	RAW	Eu154	1.34E+07	8.74E+06	
S104	Eu154	8/2/92			0.174	uCi/g	S		RAW	Eu154	1.03E+07	8.51E+06	
S104	Eu154	8/1/92	B08S46	1.6	0.174	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.03E+07	8.51E+06	
S104	Eu154	8/2/92			0.169	uCi/g	S		RAW	Eu154	1.00E+07	8.27E+06	
S104	Eu154	8/1/92	B08S48	1.6	0.169	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.00E+07	8.27E+06	
B111	Eu154	10/1/91	B08XC0	1.6	0.177	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.05E+07	8.10E+06	
T102	Eu154	3/1/93	B0B732	1.3166667	0.19	uCi/g	S	PRIMARY RESULT	TCD	Eu154	9.26E+06	8.01E+06	
C112	Eu154	3/1/92	B08DW5	1.6	0.165	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	9.77E+06	7.81E+06	
T107	Eu154	3/1/93	B08VD2	1.6	0.149	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	8.82E+06	7.63E+06	
S104	Eu154	8/2/92			0.15	uCi/g	S		RAW	Eu154	8.88E+06	7.34E+06	
S104	Eu154	8/1/92	B08S46	1.6	0.15	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	8.88E+06	7.34E+06	
S104	Eu154	8/1/92	B08S48	1.6	0.15	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.88E+06	7.34E+06	
B110	Eu154	8/9/89	89-1252-A-1	1.355	0.2225	uCi/g	I	core 2	RAW	Eu154	1.12E+07	7.28E+06	
B110	Eu154	4/1/90		1.36	0.2053	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	1.03E+07	7.10E+06	
S104	Eu154/155	4/13/90					G	Sludge	Wastren	Eu154	1.02E+07	7.02E+06	
B110	Eu154	4/1/90		1.36	0.2011	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	1.01E+07	6.95E+06	
C112	Eu154	3/1/92	B08DW5	1.6	0.146	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.84E+06	6.91E+06	
S104	Eu154	8/2/92			0.132	uCi/g	S		RAW	Eu154	7.81E+06	6.46E+06	
S104	Eu154	8/1/92	B08S46	1.6	0.132	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.81E+06	6.46E+06	
T102	Eu154	3/1/93	B0B732	1.3166667	0.152	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.40E+06	6.41E+06	
B111	Eu154	4/15/93	93-4316H1		0.12	uCi/gm	G	Sludge	Braun	Eu154	7.10E+06	6.21E+06	
T107	Eu154	3/1/93	B08VD2	1.6	0.12	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.10E+06	6.15E+06	
U110	Eu154	7/3/74		1.5	838	uCi/L	S	Chunk, mud like	RAW	Eu154	3.10E+07	6.13E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B111	Eu154	10/1/91	B08XC2	1.6	0.133	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.87E+06	6.09E+06	
T107	Eu154	3/1/93	B08VR2	1.735	0.108	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.93E+06	6.00E+06	
S104	Eu154	8/2/92			0.122	uCi/g	S		RAW	Eu154	7.22E+06	5.97E+06	
S104	Eu154	8/1/92	B08S46	1.6	0.122	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.22E+06	5.97E+06	
S104	Eu154	8/2/92			0.121	uCi/g	S		RAW	Eu154	7.16E+06	5.92E+06	
S104	Eu154	8/1/92	B08S50	1.6	0.121	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.16E+06	5.92E+06	
S104	Eu154	8/2/92			0.12	uCi/g	S		RAW	Eu154	7.10E+06	5.87E+06	
S104	Eu154	8/1/92	B08S50	1.6	0.12	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.10E+06	5.87E+06	
B111	Eu154	10/1/91	B08XC3	1.6	0.127	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.52E+06	5.82E+06	
C110	Eu154	4/23/92	B08VK1	1.6	0.12	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.10E+06	5.74E+06	
SX105	Eu154/155	2/1/77					K	Saltcake	Wastren	Eu154	2.35E+07	5.70E+06	
C110	Eu154	4/23/92	B08VJ5	1.6	0.119	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.04E+06	5.70E+06	
B111	Eu154	10/1/91	B08XC3	1.6	0.124	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.34E+06	5.68E+06	
B111	Eu154	10/1/91	B08XC2	1.6	0.12	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.10E+06	5.49E+06	
B107	Eu154	1/19/76	RAT-B107-1	1.64	0.4	uCi/gm	G	Sludge	Braun	Eu154	2.43E+07	5.43E+06	
B107	Eu154	1/19/76		1.64	0.4	uCi/g	G	sludge	RAW	Eu154	2.43E+07	5.43E+06	
C110	Eu154	4/23/92	B08W47	1.6	0.113	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.69E+06	5.41E+06	
C110	Eu154	4/23/92	B08W47	1.6	0.113	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.69E+06	5.41E+06	
T107	Eu154	3/1/93	B08VB9	1.19	0.138	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.08E+06	5.26E+06	
B111	Eu154	10/1/91	B08XB9	1	0.183	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.77E+06	5.24E+06	
S104	Eu154	8/2/92			0.107	uCi/g	S		RAW	Eu154	6.33E+06	5.23E+06	
S104	Eu154	8/1/92	B08S50	1.6	0.107	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.33E+06	5.23E+06	
B111	Eu154	10/1/91	B08XB9	1	0.179	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.62E+06	5.12E+06	
C110	Eu154	4/23/92	B08VK1	1.6	0.106	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.28E+06	5.07E+06	
B110	Eu154	4/1/90		1.34	0.1476	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	7.32E+06	5.03E+06	
C110	Eu154	4/23/92	B08VJ5	1.6	0.104	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.16E+06	4.98E+06	
T107	Eu154	3/1/93	B08VR2	1.735	0.089	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.71E+06	4.94E+06	
B111	Eu154	10/1/91	B08XB9	1	0.172	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.36E+06	4.92E+06	
B110	Eu154	4/1/90		1.34	0.1425	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	7.07E+06	4.85E+06	
S104	Eu154	8/2/92			0.0984	uCi/g	S		RAW	Eu154	5.83E+06	4.81E+06	
S104	Eu154	8/1/92	B08TJ4	1.6	0.0984	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.83E+06	4.81E+06	
C109	Eu154	9/1/92	B08T15	1.2	0.13	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.77E+06	4.80E+06	
C109	Eu154	9/1/92	B08T15	1.2	0.13	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.77E+06	4.80E+06	
B111	Eu154	10/1/91	B08XB9	1	0.167	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.18E+06	4.78E+06	
T107	Eu154	3/1/93	B08VB9	1.19	0.125	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.50E+06	4.76E+06	
BY112	Eu154	5/29/71			830	uCi/L	T	crust	RAW	Eu154	3.07E+07	4.76E+06	
S104	Eu154	8/2/92			0.095	uCi/g	S		RAW	Eu154	5.62E+06	4.65E+06	
S104	Eu154	8/1/92	B08S50	1.6	0.095	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.62E+06	4.65E+06	
B111	Eu154	3/8/93	92-04054H-1T		0.0887	uCi/gm	G	Sludge	Braun	Eu154	5.25E+06	4.55E+06	
S104	Eu154	8/2/92			0.0928	uCi/g	S		RAW	Eu154	5.49E+06	4.54E+06	
S104	Eu154	8/1/92	B08TJ5	1.6	0.0928	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.49E+06	4.54E+06	
SX102	Eu154	3/18/76	RAT-SX102-3	1.829	0.29	uCi/gm	A	Salts	Braun	Eu154	1.96E+07	4.44E+06	
C109	Eu154	9/1/92	B08T15	1.2	0.12	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.33E+06	4.43E+06	
C110	Eu154	4/23/92	B08VP9	1.6	0.09	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.33E+06	4.31E+06	
B110	Eu154	4/1/90		1.3	0.1274	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	6.13E+06	4.21E+06	
B110	Eu154	4/1/90		1.32	0.1238	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	6.05E+06	4.15E+06	
S104	Eu154	8/2/92			0.0847	uCi/g	S		RAW	Eu154	5.01E+06	4.14E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S104	Eu154	8/1/92	B08TJ5	1.6	0.0847	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.01E+08	4.14E+08	
B111	Eu154	10/1/91	B08XB7	1.3	0.109	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.24E+08	4.08E+08	
B111	Eu154	10/1/91	B08XB7	1.3	0.108	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.19E+08	4.02E+08	
S104	Eu154	8/2/92			0.0821	uCi/g	S		RAW	Eu154	4.86E+08	4.02E+08	
S104	Eu154	8/1/92	B08TJ4	1.6	0.0821	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.86E+08	4.02E+08	
C109	Eu154	9/1/92	B08T16	1.3	0.1	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.81E+08	4.00E+08	
B111	Eu154	10/1/91	B08XB7	1.3	0.104	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.00E+08	3.87E+08	
C109	Eu154	9/1/92	B08T15	1.2	0.1	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.44E+08	3.69E+08	
B110	Eu154	4/1/90		1.3	0.1114	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	5.36E+08	3.68E+08	
C109	Eu154	9/1/92	B08T16	1.3	0.09	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.33E+08	3.60E+08	
C109	Eu154	9/1/92	B08T89	1.6	0.073	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.32E+08	3.59E+08	
C109	Eu154	9/1/92	B08T89	1.6	0.072	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.26E+08	3.55E+08	
S111	Eu154	9/18/80	RAT-S111-5		0.181	uCi/gm	S	Solids	Braun	Eu154	1.07E+07	3.46E+08	
C110	Eu154	4/23/92	B08VP1	1.6	0.072	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.26E+08	3.45E+08	
T107	Eu154	3/1/93	B08VF0	1.3833333	0.0774	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.96E+08	3.43E+08	
B110	Eu154	4/1/90		1.32	0.1018	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	4.97E+08	3.42E+08	
T107	Eu154	3/1/93	B08VF0	1.3833333	0.0767	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.93E+08	3.40E+08	
C110	Eu154	4/23/92	B08VP9	1.6	0.07	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.14E+08	3.35E+08	
B111	Eu154	10/1/91	B08XB7	1.3	0.0887	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.27E+08	3.30E+08	
T107	Eu154	3/1/93	B08VD2	1.6	0.0644	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.81E+08	3.30E+08	
C110	Eu154	4/23/92	B08VN6	1.6	0.0678	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.01E+08	3.25E+08	
C109	Eu154	9/1/92	B08T16	1.3	0.077	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.70E+08	3.08E+08	
T107	Eu154	3/1/93	B08VD9	1.305	0.0737	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.56E+08	3.08E+08	
C110	Eu154	4/23/92	B08VN6	1.6	0.064	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.79E+08	3.06E+08	
T107	Eu154	3/1/93	B08VD2	1.6	0.0598	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.54E+08	3.06E+08	
T107	Eu154	3/1/93	B08VF0	1.3833333	0.0676	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.46E+08	2.99E+08	
C109	Eu154	9/1/92	B08T16	1.3	0.074	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.56E+08	2.96E+08	
C110	Eu154	4/23/92	B08VP9	1.6	0.06	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.55E+08	2.87E+08	
T107	Eu154	3/1/93	B08VF0	1.3833333	0.0642	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.29E+08	2.84E+08	
T107	Eu154	3/1/93	B08VD9	1.305	0.0648	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.13E+08	2.71E+08	
T107	Eu154	3/1/93	B08VB9	1.19	0.0688	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.03E+08	2.62E+08	
C110	Eu154	4/23/92	B08VP1	1.6	0.054	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.20E+08	2.58E+08	
C110	Eu154	4/23/92	B08VP9	1.6	0.05	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.96E+08	2.39E+08	
T105	Eu154	5/28/93	B08WT4	1.745	0.0418	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.70E+08	2.38E+08	
C109	Eu154	9/1/92	B08T17	1.2	0.064	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.84E+08	2.36E+08	
C109	Eu154	9/1/92	B08T17	1.2	0.063	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.80E+08	2.33E+08	
C109	Eu154	9/1/92	B08T17	1.2	0.061	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.71E+08	2.25E+08	
SX102	Eu154	4/18/75	RAT-SX102-1	1.88	289	uCi/l	S	Supernate/Solids	Braun	Eu154	1.07E+07	2.25E+08	
SX102	Eu154	4/18/75		1.88	289	uCi/L	S	Solid	RAW	Eu154	1.07E+07	2.25E+08	
SX102	Eu154	4/18/75		1.88	0.15	uCi/g	S	Solid	RAW	Eu154	1.04E+07	2.20E+08	
S104	Eu154	8/2/92			0.0433	uCi/g	S		RAW	Eu154	2.56E+08	2.12E+08	
S104	Eu154	8/1/92	B08TL4	1.6	0.0433	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.56E+08	2.12E+08	
C102	Eu154	6/17/87			0.06293	uCi/g	G	acid/parr	RAW	Eu154	3.73E+08	2.05E+08	
S104	Eu154	8/2/92			0.0411	uCi/g	S		RAW	Eu154	2.43E+08	2.01E+08	
S104	Eu154	8/1/92	B08TL3	1.6	0.0411	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.43E+08	2.01E+08	
C102	Eu154	12/1/86	RAT-C102-2		0.0629	uCi/gm	I	Composite	Braun	Eu154	3.72E+08	1.97E+08	
T105	Eu154	5/28/93	B08WT4	1.745	0.0344	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.22E+08	1.96E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S111	Eu154	8/25/78	1001-C	1.27	0.15	uCi/gm	S	Solids	Braun	Eu154	7.05E+08	1.94E+08	
S111	Eu154	8/25/78	1001#C	1.27	0.15	uCi/g	A	Salt	RAW	Eu154	7.05E+08	1.94E+08	
S104	Eu154	8/2/92			0.0379	uCi/g	S		RAW	Eu154	2.24E+08	1.85E+08	
S104	Eu154	8/1/92	B08TL3	1.6	0.0379	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.24E+08	1.85E+08	
S104	Eu154	8/2/92			0.0372	uCi/g	S		RAW	Eu154	2.20E+08	1.82E+08	
S104	Eu154	8/1/92	B08TL4	1.6	0.0372	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.20E+08	1.82E+08	
S104	Eu154	8/2/92			0.0353	uCi/g	S		RAW	Eu154	2.09E+08	1.73E+08	
S104	Eu154	8/1/92	B08S48	1.6	0.0353	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.09E+08	1.73E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0358	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.12E+08	1.69E+08	
B110	Eu154	8/9/89	90-0636-A-2	1.355	0.0515	uCi/g	I	core 2	RAW	Eu154	2.58E+08	1.69E+08	
C110	Eu154	4/23/92	B08VH6	1.6	0.035	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.07E+08	1.68E+08	
B110	Eu154	4/1/90		1.36	0.0476	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	2.40E+08	1.85E+08	
B110	Eu154	4/1/90		1.36	0.0476	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	2.40E+08	1.85E+08	
B110	Eu154	4/1/90		1.24	0.0515	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	2.36E+08	1.82E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0342	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.02E+08	1.62E+08	
C102	Eu154	7/10/86	E1XCOOXX	1.351	0.0629	uCi/gm	G	Sludge/Composite	Braun	Eu154	3.14E+08	1.61E+08	
T107	Eu154	3/1/93	B08V43	1.15	0.0437	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.86E+08	1.61E+08	
BX107	Eu154	5/15/79			89.38	uCi/kg	S	95% Confidence Interval	RAW	Eu154	5.29E+08	1.54E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.92E+08	1.53E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0321	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.90E+08	1.52E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0319	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.89E+08	1.51E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0312	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.85E+08	1.48E+08	
C112	Eu154	3/1/92	B08DN8	1.6	0.0311	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.84E+08	1.47E+08	
S104	Eu154	8/2/92			0.03	uCi/g	S		RAW	Eu154	1.78E+08	1.47E+08	
S104	Eu154	8/1/92	B08S48	1.6	0.03	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.78E+08	1.47E+08	
C110	Eu154	4/23/92	B08VH6	1.6	0.029	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.72E+08	1.39E+08	
T107	Eu154	3/1/93	B08TZ2	1.2872727	0.0314	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.50E+08	1.29E+08	
C110	Eu154	4/23/92	B08VH6	1.6	0.027	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.60E+08	1.29E+08	
C110	Eu154	4/23/92	B08VH6	1.6	0.027	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.60E+08	1.29E+08	
B110	Eu154	4/1/90		1.24	0.04069	uCi/g	I		RAW	Eu154	1.87E+08	1.28E+08	
T107	Eu154	3/1/93	B08TZ2	1.2872727	0.0296	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.41E+08	1.22E+08	
T105	Eu154	5/28/93	B08WT2	0.89	0.0372	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.22E+08	1.08E+08	
T105	Eu154	5/28/93	B08WT2	0.89	0.0371	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.22E+08	1.08E+08	
BX107	Eu154	6/1/92	B08X97	1.6	0.0222	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.31E+08	1.07E+08	
C112	Eu154	3/1/92	B08DY1	2	0.0175	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.30E+08	1.04E+08	
BX107	Eu154	6/1/92	B08X71	1.6	0.021	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.24E+08	1.01E+08	
BX107	Eu154	6/1/92	B08X71	1.6	0.021	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.24E+08	1.01E+08	
BX107	Eu154	6/1/92	B08X70	1.6	0.0198	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.17E+08	9.56E+05	
T107	Eu154	3/1/93	B08V43	1.15	0.0259	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.10E+08	9.53E+05	
BX107	Eu154	6/1/92	B08X98	1.6	0.0194	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.15E+08	9.36E+05	
BX107	Eu154	6/1/92	B08X97	1.6	0.0185	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.10E+08	8.93E+05	
T107	Eu154	3/1/93	B08V44	1.1	0.0252	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.03E+08	8.87E+05	
C112	Eu154	3/1/92	B08DY1	2	0.0144	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.07E+08	8.52E+05	
T102	Eu154	3/1/93	B08732	1.3166667	0.0186	uCi/g	S	PRIMARY RESULT	TCD	Eu154	9.06E+05	7.84E+05	
T107	Eu154	3/1/93	B08V43	1.15	0.0211	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	8.98E+05	7.77E+05	
BX107	Eu154	6/1/92	B08X70	1.6	0.0159	uCi/g	S	PRIMARY RESULT	TCD	Eu154	9.41E+05	7.68E+05	
T107	Eu154	3/1/93	B08V43	1.15	0.0207	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.81E+05	7.62E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
T107	Eu154	3/1/93	B08V44	1.1	0.0212	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.63E+05	7.46E+05	
T107	Eu154	3/1/93	B08V44	1.1	0.0211	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	8.59E+05	7.43E+05	
B110	Eu154	4/1/90		1.37	0.02017	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	1.02E+08	7.02E+05	
T107	Eu154	3/1/93	B08VB9	1.19	0.0181	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.97E+05	6.89E+05	
B111	Eu154	10/1/91	B08XB3	1.6	0.015	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	8.88E+05	6.87E+05	
T107	Eu154	3/1/93	B08V44	1.1	0.0185	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.53E+05	6.51E+05	
B110	Eu154	4/1/90		1.24	0.02036	uCi/g	I		RAW	Eu154	9.34E+05	6.42E+05	
B111	Eu154	10/1/91	B08XB3	1.6	0.014	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.29E+05	6.41E+05	
B111	Eu154	10/1/91	B08XB3	1.6	0.014	uCi/g	S	PRIMARY RESULT	TCD	Eu154	8.29E+05	6.41E+05	
C112	Eu154	3/1/92	B08DT4	1.6	0.0125	uCi/g	S	PRIMARY RESULT	TCD	Eu154	7.40E+05	5.91E+05	
BX107	Eu154	6/1/92	B08SD6	0.9956	0.0195	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.18E+05	5.86E+05	
BX107	Eu154	6/1/92	B08SD6	0.9956	0.019	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.00E+05	5.71E+05	
T111	Eu154	8/7/92	J-398	0.88	0.021	uCi/gm	G	Sludge	Braun	Eu154	6.84E+05	5.66E+05	
B111	Eu154	10/1/91	B08XB3	1.3	0.015	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.22E+05	5.58E+05	
T111	Eu154	11/1/91	B08ST5	0.88	0.0217	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	7.07E+05	5.50E+05	
T107	Eu154	3/1/93	B08TZ3	0.95	0.0178	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.26E+05	5.41E+05	
BX107	Eu154	6/1/92	B08SD6	0.9956	0.018	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.63E+05	5.41E+05	
T111	Eu154	11/1/91	B08ST5	0.88	0.0213	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.94E+05	5.40E+05	
T111	Eu154	11/1/91	B08ST5	0.88	0.0213	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.94E+05	5.40E+05	
B110	Eu154	8/9/89	90-0636-A-1	1.355	0.0164	uCi/g	I	core 2	RAW	Eu154	8.22E+05	5.37E+05	
T111	Eu154	11/1/91	B08ST5	0.88	0.0209	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.81E+05	5.30E+05	
B111	Eu154	10/1/91	B08XB3	1.3	0.014	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.73E+05	5.21E+05	
C112	Eu154	3/1/92	B08DM7	1.6	0.011	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.51E+05	5.21E+05	
B110	Eu154	4/1/90		1.24	0.0164	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	7.52E+05	5.17E+05	
B110	Eu154	4/1/90		1.23	0.0165	uCi/g	I		RAW	Eu154	7.51E+05	5.16E+05	
T107	Eu154	3/1/93	B08TZ3	0.95	0.0169	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.94E+05	5.14E+05	
C106	Eu154	8/1/88	2		14.4	uCi/kg	O		RAW	Eu154	8.52E+05	5.13E+05	
C106	Eu154	7/22/88			14.4	uCi/Kg	O		RAW	Eu154	8.52E+05	5.12E+05	
BX107	Eu154	6/1/92	B08SD6	0.9956	0.017	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.26E+05	5.11E+05	
T102	Eu154	3/1/93	B08732	1.3166667	0.012	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.85E+05	5.06E+05	
B111	Eu154	10/1/91	B08XB3	1.6	0.011	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.51E+05	5.04E+05	
C109	Eu154	9/1/92	B08T17	1.2	0.013	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.77E+05	4.80E+05	
B110	Eu154	8/9/89	90-0638-A-1	1.355	0.0137	uCi/g	I	core 2	RAW	Eu154	6.87E+05	4.48E+05	
B110	Eu154	4/1/90		1.28	0.0137	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	6.49E+05	4.46E+05	
B110	Eu154	4/1/90		1.37	0.01265	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	6.41E+05	4.40E+05	
C112	Eu154	3/1/92	B08DM7	1.6	0.0093	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.51E+05	4.40E+05	
B110	Eu154	4/1/90		1.36	0.012	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	6.04E+05	4.15E+05	
B111	Eu154	10/1/91	B08XB3	1.3	0.011	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.29E+05	4.09E+05	
C112	Eu154	3/1/92	B08DT4	1.6	0.00863	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.11E+05	4.08E+05	
B110	Eu154	4/1/90		1.23	0.01277	uCi/g	I		RAW	Eu154	5.81E+05	3.99E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.00875	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.18E+05	3.95E+05	
B201	Eu154	8/1/91	B08F51	1.6	0.00833	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.93E+05	3.76E+05	
B201	Eu154/155	2/4/78					G	Sludge	Wastren	Eu154	1.42E+06	3.73E+05	
BX107	Eu154	5/2/79	1	1.42	24	uCi/kg	I	core segments	RAW	Eu154	1.26E+06	3.65E+05	
BX107	Eu154	5/2/79	3	1.54	21	uCi/kg	I	core segments	RAW	Eu154	1.20E+06	3.47E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.00767	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.54E+05	3.47E+05	
B201	Eu154	8/1/91	B08F51	1.6	0.0076	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.50E+05	3.43E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Eu154	8/9/89	90-0638-A-2	1.355	0.01045	uCi/g	I	core 2	RAW	Eu154	5.24E+05	3.42E+05	
B110	Eu154	4/1/90		1.28	0.01045	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	4.95E+05	3.40E+05	
B201	Eu154	8/1/91	B08F51	1.6	0.00743	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.40E+05	3.38E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.0068	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.03E+05	3.07E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.00635	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.76E+05	2.87E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.00618	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.66E+05	2.79E+05	
B201	Eu154	8/1/91	B08F17	1.2	0.00794	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.53E+05	2.69E+05	
B201	Eu154	8/1/91	B08F50	1.6	0.00587	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.48E+05	2.65E+05	
B110	Eu154	4/1/90		1.3	0.0076	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	3.66E+05	2.51E+05	
B110	Eu154	8/9/89	89-0730-A-3	1.355	0.00735	uCi/g	I	core 2	RAW	Eu154	3.69E+05	2.41E+05	
T104	Eu154	8/26/92	B08TT8	1.6	0.00475	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.81E+05	2.34E+05	
T104	Eu154	8/26/92	B08TC0	1.6	0.00471	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.79E+05	2.32E+05	
B201	Eu154	8/1/91	B08F51	1.6	0.00502	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.97E+05	2.27E+05	
T104	Eu154	1/26/93	T104-C45-C2		0.00443	uCi/gm	G	Sludge/Composite	Braun	Eu154	2.62E+05	2.25E+05	
T107	Eu154	3/1/93	B08VB9	1.19	0.00582	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.56E+05	2.22E+05	
B201	Eu154	8/1/91	B08F17	1.2	0.00609	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.70E+05	2.06E+05	
T104	Eu154	8/26/92	B08TC0	1.6	0.00414	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.45E+05	2.04E+05	
B110	Eu154	4/1/90		1.36	0.0058	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	2.92E+05	2.00E+05	
T107	Eu154	3/1/93	B08VD2	1.6	0.00391	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.31E+05	2.00E+05	
B110	Eu154	4/1/90		1.3	0.006	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	2.89E+05	1.98E+05	
T104	Eu154	8/26/92	B08TT8	1.6	0.00393	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.33E+05	1.93E+05	
T104	Eu154	8/26/92	B08TT7	1.6	0.00379	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.24E+05	1.86E+05	
BX107	Eu154	5/2/79	2	1.42	12	uCi/kg	I	core segments	RAW	Eu154	6.30E+05	1.83E+05	
T107	Eu154	3/1/93	B08VD2	1.6	0.0034	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.01E+05	1.74E+05	
T107	Eu154	3/1/93	B08VB9	1.19	0.00436	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.92E+05	1.66E+05	
B110	Eu154	4/1/90		1.36	0.0047	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	2.37E+05	1.62E+05	
T104	Eu154	8/26/92	B08TT7	1.6	0.00329	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.95E+05	1.62E+05	
BX107	Eu154	6/1/92	B08SF0	1.3264	0.004	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.96E+05	1.60E+05	
B201	Eu154	8/1/91	B08F17	1.2	0.0045	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.00E+05	1.53E+05	
BX107	Eu154	6/1/92	B08SF0	1.3264	0.0038	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.86E+05	1.52E+05	
T111	Eu154	11/1/91	B08WR2	1.6	0.00324	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.92E+05	1.49E+05	
BX107	Eu154	6/1/92	B08SF0	1.3264	0.0037	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.82E+05	1.48E+05	
B201	Eu154	8/1/91	B08F17	1.2	0.0041	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.82E+05	1.39E+05	
B202	Eu154/155	12/31/91					G	Sludge	Wastren	Eu154	1.66E+05	1.31E+05	
B110	Eu154	4/1/90		1.34	0.00378	uCi/g	I	PRIMARY	B110 - Core Data	Eu154	1.88E+05	1.29E+05	
C109	Eu154	9/1/92	B08T63	1.6	0.0024	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.42E+05	1.18E+05	
BX107	Eu154	6/1/92	B08SF0	1.3264	0.0027	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.33E+05	1.08E+05	
B110	Eu154	4/1/90		1.34	0.0029	uCi/g	I	DUPLICATE	B110 - Core Data	Eu154	1.44E+05	9.88E+04	
C109	Eu154	9/1/92	B08T63	1.6	0.002	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.18E+05	9.85E+04	
B201	Eu154	8/1/91	B08F21	1.3	0.0026	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.25E+05	9.55E+04	
T104	Eu154	8/26/92	B08S09	1.13	0.00263	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.10E+05	9.13E+04	
BX107	Eu154	6/1/92	B08X98	1.6	0.00181	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.07E+05	8.74E+04	
T104	Eu154	8/26/92	B08S09	1.13	0.00249	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.04E+05	8.65E+04	
C112	Eu154	3/1/92	B08DM7	1.6	0.00174	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.03E+05	8.23E+04	
T104	Eu154	8/26/92	B08S09	1.13	0.0023	uCi/g	S	PRIMARY RESULT	TCD	Eu154	9.62E+04	7.99E+04	
T104	Eu154	8/26/92	B08S09	1.13	0.00224	uCi/g	S	PRIMARY RESULT	TCD	Eu154	9.37E+04	7.78E+04	
T111	Eu154	8/7/92	J-466		0.00108	uCi/gm	G	Sludge/Composite	Braun	Eu154	6.39E+04	5.29E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Single-Shell Tank Solids [Sketch ES-VAL-CR10]
 ASA Value: 6.6E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B201	Eu154	8/1/91	B08RP3	1.2	0.00151	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.70E+04	5.12E+04	
T111	Eu154	11/1/91	B08WZ0	1.6	0.00111	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.57E+04	5.12E+04	
T111	Eu154	11/1/91	B08WR1	1.6	0.00109	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.45E+04	5.02E+04	
B202	Eu154	6/7/91	B0BC04	1.6	0.00112	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.63E+04	5.00E+04	
B202	Eu154	6/7/91	B0BC11	1.6	0.00112	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.63E+04	5.00E+04	
T111	Eu154	11/1/91	B08WR1	1.6	0.00107	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.33E+04	4.93E+04	
B202	Eu154	6/7/91	B0BC04	1.6	0.0011	uCi/g	S	PRIMARY RESULT	TCD	Eu154	6.51E+04	4.91E+04	
B110	Eu154	8/9/89	90-0638-A-3	1.355	0.0015	uCi/g	I	core 2	RAW	Eu154	7.52E+04	4.91E+04	
T111	Eu154	11/1/91	B08WR2	1.6	0.00106	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.28E+04	4.89E+04	
T111	Eu154	11/1/91	B08WZ1	1.6	0.00105	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.22E+04	4.84E+04	
B202	Eu154	6/7/91	B0BC11	1.6	0.00106	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	6.28E+04	4.73E+04	
B110	Eu154	8/9/89	90-0636-A-3	1.355	0.00144	uCi/g	I	core 2	RAW	Eu154	7.21E+04	4.71E+04	
T111	Eu154	11/1/91	B08WZ0	1.6	0.00101	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.98E+04	4.66E+04	
B201	Eu154	8/1/91	B08RP3	1.2	0.00134	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	5.95E+04	4.54E+04	
T111	Eu154	11/1/91	B08WZ1	1.6	0.00096	uCi/g	S	PRIMARY RESULT	TCD	Eu154	5.71E+04	4.44E+04	
AX101	Eu154	7/14/75	RAT-AX101-1	1.3	4.94	uCi/l	G	Sludge	Braun	Eu154	1.83E+05	3.92E+04	
T104	Eu154	8/26/92	B08TB9	1.6	0.00077	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	4.56E+04	3.79E+04	
C109	Eu154	9/1/92	B08T69	1.6	0.00076	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.50E+04	3.74E+04	
T104	Eu154	8/26/92	B08TB9	1.6	0.00072	uCi/g	S	PRIMARY RESULT	TCD	Eu154	4.26E+04	3.54E+04	
T111	Eu154	8/7/92	J-402	0.93	0.001	uCi/gm	G	Sludge	Braun	Eu154	3.44E+04	2.85E+04	
C109	Eu154	9/1/92	B08T69	1.6	0.00055	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.26E+04	2.71E+04	
T111	Eu154	11/1/91	B08ST7	0.93	0.00099	uCi/g	S	PRIMARY RESULT	TCD	Eu154	3.39E+04	2.64E+04	
T111	Eu154	11/1/91	B08SX5	1.06	0.00085	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.58E+04	
T111	Eu154	11/1/91	B08ST7	0.93	0.00087	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	2.99E+04	2.33E+04	
T111	Eu154	11/1/91	B08ST7	0.93	0.00086	uCi/g	S	PRIMARY RESULT	TCD	Eu154	2.96E+04	2.30E+04	
B110	Eu154	8/9/89	89-0466-A-3	1.355	0.00062	uCi/g	I	core 2	RAW	Eu154	3.12E+04	2.04E+04	
T111	Eu154	11/1/91	B08SV7	1.09	0.00036	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.45E+04	1.13E+04	
T111	Eu154	11/1/91	B08SV7	1.09	0.00033	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.33E+04	1.04E+04	
T111	Eu154	11/1/91	B08ST9	1.11	0.00032	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.31E+04	1.02E+04	
T111	Eu154	11/1/91	B08ST9	1.11	0.00031	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.27E+04	9.91E+03	
T111	Eu154	11/1/91	B08ST9	1.11	0.00031	uCi/g	S	PRIMARY RESULT	TCD	Eu154	1.27E+04	9.91E+03	
T111	Eu154	11/1/91	B08SV7	1.09	0.00031	uCi/g	S	DUPLICATE RESULT	TCD	Eu154	1.25E+04	9.73E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Liquids [Sketch ES-VAL-CR11]
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C101	Np237						L		TRAC	Np237	2.63E+05		5
B108	Np237						L		TRAC	Np237	2.32E+05		5
TY103	Np237						L		TRAC	Np237	9.92E+04		5
TY102	Np237						L		TRAC	Np237	8.68E+04		5
BX110	Np237						L		TRAC	Np237	6.35E+04		5
TX109	Np237						L		TRAC	Np237	5.54E+04		5
BX111	Np237						L		TRAC	Np237	5.05E+04		5
BY109	Np237						L		TRAC	Np237	4.78E+04		5
BY101	Np237						L		TRAC	Np237	3.53E+04		5
BY110	Np237						L		TRAC	Np237	2.15E+04		5
BY104	Np237						L		TRAC	Np237	2.12E+04		5
A105	Np237						L		TRAC	Np237	2.07E+04		5
BY108	Np237						L		TRAC	Np237	2.04E+04		5
BY106	Np237						L		TRAC	Np237	2.03E+04		5
BY111	Np237						L		TRAC	Np237	1.99E+04		5
BY112	Np237						L		TRAC	Np237	1.73E+04		5
BY105	Np237						L		TRAC	Np237	1.66E+04		5
TX110	Np237						L		TRAC	Np237	1.58E+04		5
BY107	Np237						L		TRAC	Np237	1.43E+04		5
TX108	Np237						L		TRAC	Np237	1.23E+04		5
SX106	Np237						L		TRAC	Np237	9.62E+03		5
S104	Np237						L		TRAC	Np237	7.87E+03		5
SX105	Np237						L		TRAC	Np237	7.18E+03		5
SX104	Np237						L		TRAC	Np237	5.74E+03		5
S101	Np237						L		TRAC	Np237	5.72E+03		5
T101	Np237						L		TRAC	Np237	5.69E+03		5
S111	Np237						L		TRAC	Np237	4.76E+03		5
S110	Np237						L		TRAC	Np237	4.53E+03		5
U102	Np237						L		TRAC	Np237	4.30E+03		5
U107	Np237						L		TRAC	Np237	4.23E+03		5
B109	Np237						L		TRAC	Np237	4.10E+03		5
TX105	Np237						L		TRAC	Np237	3.82E+03		5
S108	Np237						L		TRAC	Np237	3.69E+03		5
S106	Np237						L		TRAC	Np237	3.61E+03		5
B107	Np237						L		TRAC	Np237	3.56E+03		5
TX111	Np237						L		TRAC	Np237	3.45E+03		5
U111	Np237						L		TRAC	Np237	3.34E+03		5
S105	Np237						L		TRAC	Np237	3.10E+03		5
C110	Np237	4/23/92	B08VH6	1.1833333	6.49E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	2.84E+03		5

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Liquids [Sketch ES-VAL-CR11]
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C110	Np237	4/23/92	B08VH6	1.1833333	6.49E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	2.84E+03		5
T103	Np237						L		TRAC	Np237	2.65E+03		5
C110	Np237	4/23/92	B08VP9	1.1	6.49E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	2.64E+03		5
C110	Np237	4/23/92	B08VP9	1.1	6.49E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	2.64E+03		5
C110	Np237	4/23/92	B08VM5	1.0033333	6.49E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	2.41E+03		5
C110	Np237	4/23/92	B08VM5	1.0033333	6.49E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	2.41E+03		5
B105	Np237						L		TRAC	Np237	2.36E+03		5
B103	Np237						L		TRAC	Np237	1.75E+03		5
AX103	Np237						L		TRAC	Np237	1.62E+03		5
TX112	Np237						L		TRAC	Np237	1.23E+03		5
TX114	Np237						L		TRAC	Np237	1.19E+03		5
BX109	Np237						L		TRAC	Np237	1.19E+03		5
TY105	Np237						L		TRAC	Np237	1.13E+03		5
C109	Np237						L		TRAC	Np237	1.04E+03		5
C111	Np237						L		TRAC	Np237	8.72E+02		5
T102	Np237						L		TRAC	Np237	8.36E+02		5
TX106	Np237						L		TRAC	Np237	8.26E+02		5
BX112	Np237						L		TRAC	Np237	7.48E+02		5
TX109	Np237	5/20/75			0.02	uCi/L	L	LIQUID	RAW	Np237	7.40E+02		5
TX102	Np237						L		TRAC	Np237	7.20E+02		5
B102	Np237						L		TRAC	Np237	6.76E+02		5
TY101	Np237						L		TRAC	Np237	6.66E+02		5
B104	Np237						L		TRAC	Np237	5.76E+02		5
TX113	Np237						L		TRAC	Np237	4.98E+02		5
TX116	Np237						L		TRAC	Np237	4.88E+02		5
BX107	Np237						L		TRAC	Np237	4.78E+02		5
T108	Np237						L		TRAC	Np237	4.77E+02		5
T109	Np237						L		TRAC	Np237	4.61E+02		5
TX115	Np237						L		TRAC	Np237	4.23E+02		5
C112	Np237	3/1/92	B08DT5	1.1	0.00001	uCi/g	L	DUPLICATE RESULT	TCD	Np237	4.07E+02		5
C112	Np237	3/1/92	B08DT5	1.1	0.00001	uCi/g	L	PRIMARY RESULT	TCD	Np237	4.07E+02		5
C112	Np237						L		TRAC	Np237	4.06E+02		5
U110	Np237						L		TRAC	Np237	3.48E+02		5
TY104	Np237						L		TRAC	Np237	3.28E+02		5
B106	Np237						L		TRAC	Np237	2.83E+02		5
T104	Np237						L		TRAC	Np237	2.74E+02		5
U109	Np237						L		TRAC	Np237	2.46E+02		5
BX108	Np237						L		TRAC	Np237	2.44E+02		5
C107	Np237						L		TRAC	Np237	2.30E+02		5

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Liquids [Sketch ES-VAL-CR11]
 ASA Value: n/a

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TX103	Np237						L		TRAC	Np237	2.12E+02		5
TX117	Np237						L		TRAC	Np237	2.03E+02		5
BX110	Np237	5/20/75		1.414	0.005	uCi/L	L	solutions	RAW	Np237	1.85E+02		5
A103	Np237						L		TRAC	Np237	1.56E+02		5
C112	Np237	3/1/92	B08DZ5	1.4	0.000002	uCi/g	L	DUPLICATE RESULT	TCD	Np237	1.04E+02		5
C112	Np237	3/1/92	B08DZ5	1.4	0.000002	uCi/g	L	PRIMARY RESULT	TCD	Np237	1.04E+02		5
Minimum Plot Limit: 1.00E+01 Bq/L													
C108	Np237						L		TRAC	Np237	9.63E+00		5
C201	Np237						L		TRAC	Np237	5.35E+00		5
U108	Np237						L		TRAC	Np237	2.36E+00		5
U105	Np237						L		TRAC	Np237	8.93E-01		5
U103	Np237						L		TRAC	Np237	8.70E-01		5
C204	Np237						L		TRAC	Np237	3.08E-01		5
TX104	Np237						L		TRAC	Np237	7.16E-04		5
TX107	Np237						L		TRAC	Np237	4.65E-04		5
TY106	Np237						L		TRAC	Np237	1.07E-04		5
A106	Np237						L		TRAC	Np237	2.88E-05		5
U104	Np237						L		TRAC	Np237	2.76E-05		5
S107	Np237						L		TRAC	Np237	1.48E-05		5
U106	Np237						L		TRAC	Np237	1.35E-05		5
S102	Np237						L		TRAC	Np237	1.09E-05		5
B202	Np237						L		TRAC	Np237	1.09E-05		5
C203	Np237						L		TRAC	Np237	6.20E-06		5
C102	Np237						L		TRAC	Np237	3.64E-06		5
C104	Np237						L		TRAC	Np237	2.64E-06		5
SX101	Np237						L		TRAC	Np237	1.03E-06		5
C110	Np237						L		TRAC	Np237	7.97E-08		5
B101	Np237						L		TRAC	Np237	6.88E-08		5
AX101	Np237						L		TRAC	Np237	1.08E-08		5
C202	Np237						L		TRAC	Np237	7.32E-12		5
AX102	Np237						L		TRAC	Np237	8.55E-13		5
T107	Np237						L		TRAC	Np237	5.82E-14		5
BX101	Np237						L		TRAC	Np237	3.23E-14		5

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Solids [Sketch ES-VAL-CR12]
 ASA Value: 3.02E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B202	Np237	12/31/91					G		Wastren	Np237	3.21E+07		15
Preliminary ASA Value: 3.20E+07 Bq/L													15
B202	Np237	6/7/91	B0BC05	1.6	0.537	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.18E+07		15
B202	Np237	6/7/91	B0BC05	1.6	0.535	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.17E+07		15
B202	Np237	6/7/91	B0BC10	1.6	0.528	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.13E+07		15
ASA Value: 3.02E+07 Bq/L													
U110	Np237	12/1/89		1.3	0.628	uCi/g	I	PRIMARY	U110 - Core Data	Np237	3.02E+07		*
U110	Np237	12/1/89			0.509	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	3.01E+07		
B202	Np237	6/7/91	B0BC10	1.6	0.496	uCi/g	S	PRIMARY RESULT	TCD	Np237	2.94E+07		
B202	Np237	6/7/91	B0BC04	1.6	0.495	uCi/g	S	PRIMARY RESULT	TCD	Np237	2.93E+07		
B202	Np237	6/7/91	B0BC11	1.6	0.488	uCi/g	S	PRIMARY RESULT	TCD	Np237	2.89E+07		
U110	Np237	12/1/89		1.54	0.45	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	2.56E+07		
U110	Np237	12/1/89		1.29	0.537	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	2.56E+07		
U110	Np237	12/1/89		1.42	0.46	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	2.42E+07		
U110	Np237	12/1/89		1.3	0.5	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	2.41E+07		
U110	Np237	12/1/89			0.398	uCi/g	I	PRIMARY	U110 - Core Data	Np237	2.36E+07		
U110	Np237	12/1/89		1.42	0.425	uCi/g	I	PRIMARY	U110 - Core Data	Np237	2.23E+07		
U110	Np237	12/1/89		1.675	0.358	uCi/g	I	PRIMARY	U110 - Core Data	Np237	2.22E+07		
U110	Np237	12/1/89		1.54	0.38	uCi/g	I	PRIMARY	U110 - Core Data	Np237	2.17E+07		
U110	Np237	12/1/89		1.48	0.364	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	1.99E+07		
U110	Np237	12/1/89		1.48	0.358	uCi/g	I	PRIMARY	U110 - Core Data	Np237	1.96E+07		
U110	Np237	12/1/89		1.675	0.303	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	1.88E+07		
U110	Np237	12/1/89		1.29	0.372	uCi/g	I	PRIMARY	U110 - Core Data	Np237	1.78E+07		
U110	Np237	12/1/89		1.04	0.45	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	1.73E+07		
U110	Np237	12/1/89		1.04	0.42	uCi/g	I	PRIMARY	U110 - Core Data	Np237	1.62E+07		
U110	Np237	12/1/89		1.54	0.157	uCi/g	I	PRIMARY	U110 - Core Data	Np237	8.95E+06		
U110	Np237	12/1/89		1.54	0.151	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	8.60E+06		
T104	Np237	8/26/92	B08TT8	1.6	0.137	uCi/g	S	PRIMARY RESULT	TCD	Np237	8.11E+06		
U110	Np237	12/1/89		1.42	0.145	uCi/g	I	PRIMARY	U110 - Core Data	Np237	7.62E+06		
U110	Np237	12/1/89		1.675	0.113	uCi/g	I	PRIMARY	U110 - Core Data	Np237	7.00E+06		
U110	Np237	12/1/89		1.675	0.107	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	6.63E+06		
U110	Np237	12/1/89			0.11	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	6.51E+06		
U110	Np237	12/1/89			0.107	uCi/g	I	PRIMARY	U110 - Core Data	Np237	6.33E+06		
U110	Np237	12/1/89		1.42	0.114	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	5.99E+06		
U110	Np237	12/1/89		1.48	0.107	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	5.86E+06		
U110	Np237	12/1/89		1.48	0.105	uCi/g	I	PRIMARY	U110 - Core Data	Np237	5.75E+06		
U110	Np237	12/1/89		1.29	0.102	uCi/g	I	PRIMARY	U110 - Core Data	Np237	4.87E+06		
U110	Np237	12/1/89		1.29	0.101	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	4.82E+06		
U110	Np237	12/1/89		1.04	0.116	uCi/g	I	PRIMARY	U110 - Core Data	Np237	4.46E+06		
B202	Np237	6/7/91	B0BC04	1.6	0.0653	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.87E+06		
U110	Np237	12/1/89		1.04	0.099	uCi/g	I	DUPLICATE	U110 - Core Data	Np237	3.81E+06		
C110	Np237	4/23/92	B08W47	1.6	0.0541	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.20E+06		
C110	Np237	4/23/92	B08W47	1.6	0.0538	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.18E+06		
T111	Np237	11/1/91	B08WR1	1.6	0.0325	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Radionuclides
Neptunium 237 Single-Shell Tank Solids [Sketch ES-VAL-CR12]
ASA Value: 3.02E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B202	Np237	6/7/91	B0BC04	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
B202	Np237	6/7/91	B0BC11	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
BX107	Np237	6/1/92	B08X71	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
C110	Np237	4/23/92	B08VN6	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
C110	Np237	4/23/92	B08VK1	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
C110	Np237	4/23/92	B08VN6	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WR2	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WZ0	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WZ1	1.6	0.0324	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WR2	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WR1	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WZ0	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
T111	Np237	11/1/91	B08WZ1	1.6	0.0324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+06		
B202	Np237	6/7/91	B0BC11	1.6	0.0323	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.91E+06		
C110	Np237	4/23/92	B08VP1	1.6	0.0323	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.91E+06		
C110	Np237	4/23/92	B08VJ5	1.6	0.0323	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.91E+06		
C110	Np237	4/23/92	B08VK1	1.6	0.0322	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.91E+06		
C110	Np237	4/23/92	B08VP1	1.6	0.0321	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.90E+06		
C110	Np237	4/23/92	B08VJ5	1.6	0.032	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.89E+06		
T104	Np237	8/26/92	B08TT7	1.6	0.0269	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.59E+06		
BX107	Np237	6/1/92	B08X98	1.6	0.0216	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.28E+06		
BX107	Np237	6/1/92	B08X97	1.6	0.0216	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.28E+06		
S104	Np237	8/1/92	B08TF6	1.6	0.0216	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.28E+06		
S104	Np237	8/1/92	B08TL3	1.6	0.0216	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.28E+06		
S104	Np237	8/1/92	B08TF6	1.6	0.0216	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.28E+06		
S104	Np237	8/2/92			0.0216	uCi/g	S		RAW	Np237	1.28E+06		
T104	Np237	8/26/92	B08TB9	1.6	0.0216	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.28E+06		
S104	Np237	8/1/92	B08TJ4	1.6	0.0215	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.27E+06		
S104	Np237	8/2/92			0.0215	uCi/g	S		RAW	Np237	1.27E+06		
T104	Np237	8/26/92	B08TB9	1.6	0.0215	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.27E+06		
S104	Np237	8/1/92	B08TJ4	1.6	0.0214	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.27E+06		
S104	Np237	8/2/92			0.0214	uCi/g	S		RAW	Np237	1.27E+06		
S104	Np237	8/1/92	B08TF7	1.6	0.0213	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.26E+06		
S104	Np237	8/1/92	B08TL3	1.6	0.0213	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.26E+06		
S104	Np237	8/2/92			0.0213	uCi/g	S		RAW	Np237	1.26E+06		
T104	Np237	8/26/92	B08TT8	1.6	0.0213	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.26E+06		
S104	Np237	8/1/92	B08TJ5	1.6	0.0212	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.26E+06		
S104	Np237	8/2/92			0.0212	uCi/g	S		RAW	Np237	1.26E+06		
S104	Np237	8/1/92	B08TJ5	1.6	0.0211	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.25E+06		
S104	Np237	8/2/92			0.0211	uCi/g	S		RAW	Np237	1.25E+06		
BX107	Np237	6/1/92	B08X70	1.6	0.0189	uCi/g	S	DUPLICATE RESULT	TCD	Np237	1.12E+06		
BX107	Np237	6/1/92	B08X70	1.6	0.0189	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.12E+06		
BX107	Np237	6/1/92	B08X97	1.6	0.0108	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.39E+05		
BX107	Np237	6/1/92	B08X98	1.6	0.0108	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.39E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Solids [Sketch ES-VAL-CR12]
 ASA Value: 3.02E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
T104	Np237	8/26/92	B08TC0	1.6	0.0108	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.39E+05			
T104	Np237	8/26/92	B08TT7	1.6	0.0108	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.39E+05			
T104	Np237	8/26/92	B08TC0	1.6	0.0108	uCi/g	S	PRIMARY RESULT	TCD	Np237	6.39E+05			
S104	Np237	8/1/92	B08TL4	1.6	0.0107	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.33E+05			
S104	Np237	8/1/92	B08TL4	1.6	0.0107	uCi/g	S	PRIMARY RESULT	TCD	Np237	6.33E+05			
S104	Np237	8/2/92			0.0107	uCi/g	S		RAW	Np237	6.33E+05			
S104	Np237	8/1/92	B08TF7	1.6	0.00805	uCi/g	S	DUPLICATE RESULT	TCD	Np237	4.77E+05			
S104	Np237	8/2/92			0.00805	uCi/g	S		RAW	Np237	4.77E+05			
AX104	Np237	9/15/77					G		Wastren	Np237	2.96E+05			
BX107	Np237	6/1/92	B08X71	1.6	0.00324	uCi/g	S	PRIMARY RESULT	TCD	Np237	1.92E+05			
Minimum Plot Limit: 1.00E+05 Bq/L														
C112	Np237	3/1/92	B08DY1	2	0.00134	uCi/g	S	DUPLICATE RESULT	TCD	Np237	9.92E+04			
C112	Np237	3/1/92	B08DY1	2	0.00105	uCi/g	S	PRIMARY RESULT	TCD	Np237	7.77E+04			
C112	Np237	3/1/92	B08DT4	1.6	0.000662	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.92E+04			
T102	Np237	3/1/93	B0B732	1.3166667	0.000636	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.10E+04			
C112	Np237	3/1/92	B08DW5	1.6	0.000433	uCi/g	S	PRIMARY RESULT	TCD	Np237	2.56E+04			
C112	Np237	3/1/92	B08DW5	1.6	0.000384	uCi/g	S	DUPLICATE RESULT	TCD	Np237	2.27E+04			
T102	Np237	3/1/93	B0B732	1.3166667	0.00044	uCi/g	S	DUPLICATE RESULT	TCD	Np237	2.14E+04			
B111	Np237	10/1/91	B08XC0	1.6	0.00011	uCi/g	S	DUPLICATE RESULT	TCD	Np237	6.51E+03			
B111	Np237	10/1/91	B08XC0	1.6	0.00011	uCi/g	S	PRIMARY RESULT	TCD	Np237	6.51E+03			
B111	Np237	4/15/93	93-4312H1		0.00011	uCi/gm	G	Sludge	Braun	Np237	6.51E+03			
B110	Np237	4/1/90		1.36	0.0001081	uCi/g	I	DUPLICATE	B110 - Core Data	Np237	5.44E+03			
B110	Np237	4/1/90		1.34	9.91E-05	uCi/g	I	PRIMARY	B110 - Core Data	Np237	4.91E+03			
B111	Np237	10/1/91	B08XC1	1.6	0.000082	uCi/g	S	PRIMARY RESULT	TCD	Np237	4.85E+03			
B110	Np237	4/1/90		1.36	9.459E-05	uCi/g	I	PRIMARY	B110 - Core Data	Np237	4.76E+03			
B110	Np237	4/1/90		1.36	8.559E-05	uCi/g	I	PRIMARY	B110 - Core Data	Np237	4.31E+03			
B110	Np237	4/1/90		1.32	8.468E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Np237	4.14E+03			
B110	Np237	4/1/90		1.32	8.333E-05	uCi/g	I	PRIMARY	B110 - Core Data	Np237	4.07E+03			
B111	Np237	10/1/91	B08XC2	1.6	0.000066	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.91E+03			
B111	Np237	4/15/93	93-4316H1		0.000066	uCi/gm	G	Sludge	Braun	Np237	3.91E+03			
B110	Np237	4/1/90		1.36	7.207E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Np237	3.63E+03			
B201	Np237	8/1/91	B08F50	1.6	0.00006	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.55E+03			
B111	Np237	10/1/91	B08XC3	1.6	0.000053	uCi/g	S	PRIMARY RESULT	TCD	Np237	3.14E+03			
B111	Np237	10/1/91	B08XC2	1.6	0.000052	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.08E+03			
B111	Np237	10/1/91	B08XC3	1.6	0.000051	uCi/g	S	DUPLICATE RESULT	TCD	Np237	3.02E+03			
B201	Np237	8/1/91	B08F50	1.6	0.00005	uCi/g	S	PRIMARY RESULT	TCD	Np237	2.96E+03			
B111	Np237	10/1/91	B08XC1	1.6	0.000047	uCi/g	S	DUPLICATE RESULT	TCD	Np237	2.78E+03			
B110	Np237	4/1/90		1.17	5.631E-05	uCi/g	I		RAW	Np237	2.44E+03			
B202	Np237						S		TRAC	Np237	7.81E+02			
B103	Np237						S		TRAC	Np237	6.53E+02			
TY105	Np237						S		TRAC	Np237	3.27E+02			
BY105	Np237						S		TRAC	Np237	3.02E+02			
TY104	Np237						S		TRAC	Np237	2.86E+02			
AX104	Np237						S		TRAC	Np237	2.53E+02			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Solids [Sketch ES-VAL-CR12]
 ASA Value: 3.02E+07 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
A106	Np237						S		TRAC	Np237	2.41E+02		
C102	Np237						S		TRAC	Np237	2.40E+02		
BX109	Np237						S		TRAC	Np237	2.33E+02		
C106	Np237						S		TRAC	Np237	2.11E+02		
C104	Np237						S		TRAC	Np237	2.02E+02		
C111	Np237						S		TRAC	Np237	1.74E+02		
B101	Np237						S		TRAC	Np237	1.66E+02		
C107	Np237						S		TRAC	Np237	1.32E+02		
T203	Np237						S		TRAC	Np237	1.29E+02		
C110	Np237						S		TRAC	Np237	1.28E+02		
B204	Np237						S		TRAC	Np237	1.20E+02		
BX101	Np237						S		TRAC	Np237	1.19E+02		
C105	Np237						S		TRAC	Np237	1.12E+02		
SX111	Np237						S		TRAC	Np237	1.10E+02		
SX112	Np237						S		TRAC	Np237	1.06E+02		
T104	Np237						S		TRAC	Np237	1.05E+02		
SX107	Np237						S		TRAC	Np237	1.01E+02		
S107	Np237						S		TRAC	Np237	8.47E+01		
C112	Np237						S		TRAC	Np237	7.78E+01		
SX108	Np237						S		TRAC	Np237	5.96E+01		
A101	Np237						S		TRAC	Np237	5.49E+01		
SX114	Np237						S		TRAC	Np237	5.28E+01		
A104	Np237						S		TRAC	Np237	5.26E+01		
B102	Np237						S		TRAC	Np237	5.10E+01		
U110	Np237						S		TRAC	Np237	4.93E+01		
S101	Np237						S		TRAC	Np237	4.12E+01		
TY101	Np237						S		TRAC	Np237	4.08E+01		
SX101	Np237						S		TRAC	Np237	3.66E+01		
SX110	Np237						S		TRAC	Np237	3.29E+01		
TY106	Np237						S		TRAC	Np237	3.24E+01		
S104	Np237						S		TRAC	Np237	3.23E+01		
AX102	Np237						S		TRAC	Np237	2.90E+01		
C108	Np237						S		TRAC	Np237	2.75E+01		
U101	Np237						S		TRAC	Np237	2.64E+01		
T107	Np237						S		TRAC	Np237	2.62E+01		
SX109	Np237						S		TRAC	Np237	2.44E+01		
TX108	Np237						S		TRAC	Np237	2.43E+01		
A103	Np237						S		TRAC	Np237	2.04E+01		
C203	Np237						S		TRAC	Np237	1.62E+01		
C202	Np237						S		TRAC	Np237	1.44E+01		
T105	Np237						S		TRAC	Np237	1.09E+01		
S105	Np237						S		TRAC	Np237	1.09E+01		
C103	Np237						S		TRAC	Np237	5.77E+00		
BX112	Np237						S		TRAC	Np237	4.95E+00		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Single-Shell Tank Solids [Sketch ES-VAL-CR12]
 ASA Value: 3.02E+07 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S102	Np237						S		TRAC	Np237	4.63E+00		
BY103	Np237						S		TRAC	Np237	4.58E+00		
BX108	Np237						S		TRAC	Np237	3.47E+00		
AX101	Np237						S		TRAC	Np237	3.17E+00		
B110	Np237						S		TRAC	Np237	2.77E+00		
T112	Np237						S		TRAC	Np237	2.58E+00		
U108	Np237						S		TRAC	Np237	2.40E+00		
T111	Np237						S		TRAC	Np237	1.65E+00		
T106	Np237						S		TRAC	Np237	1.37E+00		
SX102	Np237						S		TRAC	Np237	1.34E+00		
B104	Np237						S		TRAC	Np237	1.06E+00		
T110	Np237						S		TRAC	Np237	8.83E-01		
S103	Np237						S		TRAC	Np237	3.92E-02		
TX101	Np237						S		TRAC	Np237	1.67E-04		
BX103	Np237						S		TRAC	Np237	7.98E-05		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 238 Single-Shell Tank Liquids [Sketch ES-VAL-CR13]
ASA Value: 9.34E+04 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C106	Pu238	4/1/90	RAT-C106-4B		0.422	ugm/gm	U	Unknown	Braun	Pu238	2.99E+08	2.88E+08	2
C105	Pu238	4/1/90	RAT-C105-4B		0.048	ugm/gm	U	Unknown	Braun	Pu238	3.40E+07	3.27E+07	2
ASA Value: 9.34E+04 Bq/L													
T107	Pu238	3/1/93	B08V58	1.2	0.00256	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	9.47E+04	9.34E+04	*
T107	Pu238	3/1/93	B08V58	1.2	0.00244	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	9.03E+04	8.90E+04	
Minimum Plot Limit: 1.00E+04 Bq/L													
T105	Pu238	5/28/93	B08WT3	0.9933333	0.00025	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	9.07E+03	8.95E+03	
T107	Pu238	3/1/93	B08VB5	1.105	0.00017	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	6.33E+03	6.24E+03	
BX109	Pu238	5/20/75		1.311	0.17	uCi/L	L	solutions	RAW	Pu238	6.29E+03	5.39E+03	
T107	Pu238	3/1/93	B08VB5	1.105	0.00011	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	4.22E+03	4.16E+03	
T104	Pu238	8/26/92	B08TQ7	1.1	9E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+03	3.27E+03	
T104	Pu238	8/26/92	B08TQ7	1.1	9E-05	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.33E+03	3.27E+03	
T107	Pu238	3/1/93	B08V16	1.02	9E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+03	3.29E+03	
T107	Pu238	3/1/93	B08V16	1.02	9E-05	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.33E+03	3.29E+03	
C112	Pu238	3/1/92	B08DT5	1.1	6.2E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu238	2.53E+03	2.48E+03	
C112	Pu238	3/1/92	B08DT5	1.1	4.7E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu238	1.90E+03	1.86E+03	
TX109	Pu238	5/20/75			0.045	uCi/L	L	LIQUID	RAW	Pu238	1.67E+03	1.43E+03	
B108	Pu238						L		TRAC	Pu238	1.53E+03	1.37E+03	
BX110	Pu238	5/20/75		1.414	0.01	uCi/L	L	solutions	RAW	Pu238	3.70E+02	3.17E+02	
BX110	Pu238						L		TRAC	Pu238	3.34E+02	2.99E+02	
C110	Pu238	4/23/92	B08VM5	1.0033333	9E-06	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+02	3.26E+02	
C110	Pu238	4/23/92	B08VP9	1.1	9E-06	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+02	3.26E+02	
C110	Pu238	4/23/92	B08VH6	1.1833333	9E-06	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+02	3.26E+02	
C110	Pu238	4/23/92	B08VM5	1.0033333	9E-06	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.33E+02	3.26E+02	
C110	Pu238	4/23/92	B08VP9	1.1	9E-06	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.33E+02	3.26E+02	
C110	Pu238	4/23/92	B08VH6	1.1833333	9E-06	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.33E+02	3.26E+02	
BX111	Pu238						L		TRAC	Pu238	2.65E+02	2.37E+02	
BY109	Pu238						L		TRAC	Pu238	2.51E+02	2.25E+02	
SX105	Pu238						L		TRAC	Pu238	1.94E+02	1.74E+02	
BY101	Pu238						L		TRAC	Pu238	1.70E+02	1.52E+02	
SX106	Pu238						L		TRAC	Pu238	1.62E+02	1.45E+02	
TX109	Pu238						L		TRAC	Pu238	1.57E+02	1.41E+02	
S101	Pu238						L		TRAC	Pu238	1.31E+02	1.17E+02	
SX104	Pu238						L		TRAC	Pu238	1.29E+02	1.16E+02	
BY108	Pu238						L		TRAC	Pu238	1.26E+02	1.13E+02	
BY104	Pu238						L		TRAC	Pu238	1.11E+02	9.96E+01	
BY106	Pu238						L		TRAC	Pu238	1.06E+02	9.51E+01	
BY110	Pu238						L		TRAC	Pu238	1.02E+02	9.15E+01	
BY111	Pu238						L		TRAC	Pu238	9.56E+01	8.56E+01	
BY112	Pu238						L		TRAC	Pu238	9.06E+01	8.11E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Liquids [Sketch ES-VAL-CR13]
 ASA Value: 9.34E+04 Bq/L

Tank Waste Characterization Sample Information										Radionuclide Information	
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L
BY105	Pu238						L		TRAC	Pu238	9.06E+01
T101	Pu238						L		TRAC	Pu238	7.75E+01
BY107	Pu238						L		TRAC	Pu238	7.65E+01
U107	Pu238						L		TRAC	Pu238	7.21E+01
TX110	Pu238						L		TRAC	Pu238	6.46E+01
U111	Pu238						L		TRAC	Pu238	5.62E+01
B103	Pu238						L		TRAC	Pu238	5.02E+01
T103	Pu238						L		TRAC	Pu238	4.88E+01
S108	Pu238						L		TRAC	Pu238	4.03E+01
AX103	Pu238						L		TRAC	Pu238	3.87E+01
C107	Pu238						L		TRAC	Pu238	3.05E+01
B109	Pu238						L		TRAC	Pu238	2.22E+01
S111	Pu238						L		TRAC	Pu238	2.03E+01
A103	Pu238						L		TRAC	Pu238	1.66E+01
S110	Pu238						L		TRAC	Pu238	1.62E+01
T102	Pu238						L		TRAC	Pu238	1.47E+01
TX111	Pu238						L		TRAC	Pu238	1.08E+01
B102	Pu238						L		TRAC	Pu238	1.03E+01
TX105	Pu238						L		TRAC	Pu238	8.66E+00
B106	Pu238						L		TRAC	Pu238	6.73E+00
TY103	Pu238						L		TRAC	Pu238	4.65E+00
U102	Pu238						L		TRAC	Pu238	4.02E+00
TX112	Pu238						L		TRAC	Pu238	3.13E+00
S106	Pu238						L		TRAC	Pu238	2.86E+00
TX103	Pu238						L		TRAC	Pu238	4.99E-01
TY102	Pu238						L		TRAC	Pu238	3.49E-01
TX102	Pu238						L		TRAC	Pu238	3.07E-01
B202	Pu238						L		TRAC	Pu238	2.91E-02
A106	Pu238						L		TRAC	Pu238	2.78E-02
S107	Pu238						L		TRAC	Pu238	2.89E-06
C104	Pu238						L		TRAC	Pu238	1.14E-06
U106	Pu238						L		TRAC	Pu238	3.82E-07
S102	Pu238						L		TRAC	Pu238	1.49E-07
TX104	Pu238						L		TRAC	Pu238	2.84E-08
SX101	Pu238						L		TRAC	Pu238	2.82E-08
AX101	Pu238						L		TRAC	Pu238	3.41E-09
B101	Pu238						L		TRAC	Pu238	1.89E-10
AX102	Pu238						L		TRAC	Pu238	2.39E-13
BX101	Pu238						L		TRAC	Pu238	3.42E-15
TX107	Pu238						L		TRAC	Pu238	1.67E-15
U104	Pu238						L		TRAC	Pu238	5.34E-16

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Liquids [Sketch ES-VAL-CR13]
 ASA Value: 9.34E+04 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TY106	Pu238						L		TRAC	Pu238	2.94E-16	2.63E-16	
C102	Pu238						L		TRAC	Pu238	4.00E-18	3.58E-18	
C203	Pu238						L		TRAC	Pu238	3.56E-21	3.18E-21	
C110	Pu238						L		TRAC	Pu238	1.23E-21	1.10E-21	
C202	Pu238						L		TRAC	Pu238	2.66E-25	2.38E-25	
T107	Pu238						L		TRAC	Pu238	3.53E-26	3.16E-26	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 1.90E+08 Bq/L													22
S104	Pu238	8/2/92			0.009	ug/g	S		RAW	Pu238	9.27E+06	9.10E+06	
S104	Pu238	8/1/92	B08S85	1.6	0.009	ug/g	S	PRIMARY RESULT	TCD	Pu238	9.27E+06	9.10E+06	
S104	Pu238	8/2/92			0.00898	ug/g	S		RAW	Pu238	9.25E+06	9.08E+06	
S104	Pu238	8/1/92	B08S85	1.6	0.00898	ug/g	S	DUPLICATE RESULT	TCD	Pu238	9.25E+06	9.08E+06	
S104	Pu238	8/2/92			0.00893	ug/g	S		RAW	Pu238	9.20E+06	9.02E+06	
S104	Pu238	8/1/92	B08S75	1.6	0.00893	ug/g	S	PRIMARY RESULT	TCD	Pu238	9.20E+06	9.02E+06	
S104	Pu238	8/2/92			0.00892	ug/g	S		RAW	Pu238	9.19E+06	9.01E+06	
S104	Pu238	8/1/92	B08S75	1.6	0.00892	ug/g	S	DUPLICATE RESULT	TCD	Pu238	9.19E+06	9.01E+06	
S104	Pu238	8/2/92			0.00448	ug/g	S		RAW	Pu238	4.61E+06	4.53E+06	
S104	Pu238	8/1/92	B08S50	1.6	0.00448	ug/g	S	PRIMARY RESULT	TCD	Pu238	4.61E+06	4.53E+06	
S104	Pu238	8/2/92			0.00447	ug/g	S		RAW	Pu238	4.60E+06	4.52E+06	
S104	Pu238	8/1/92	B08S50	1.6	0.00447	ug/g	S	DUPLICATE RESULT	TCD	Pu238	4.60E+06	4.52E+06	
C105	Pu238	2/1/91			48	nCi/g	S	5 +/-	RAW	Pu238	2.84E+06	2.76E+06	
S104	Pu238	8/2/92			0.018	uCi/g	S		RAW	Pu238	1.07E+06	1.05E+06	
S104	Pu238	8/1/92	B08TL3	1.6	0.018	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.07E+06	1.05E+06	
T104	Pu238	8/26/92	B08TC0	1.6	0.018	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.07E+06	1.05E+06	
T104	Pu238	8/26/92	B08TT7	1.6	0.018	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.07E+06	1.05E+06	
T104	Pu238	8/26/92	B08TC0	1.6	0.018	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.07E+06	1.05E+06	
T104	Pu238	8/26/92	B08TB9	1.6	0.018	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.07E+06	1.05E+06	
S104	Pu238	8/2/92			0.0179	uCi/g	S		RAW	Pu238	1.06E+06	1.04E+06	
S104	Pu238	8/1/92	B08TL4	1.6	0.0179	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.06E+06	1.04E+06	
S104	Pu238	8/1/92	B08TJ4	1.6	0.0179	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.06E+06	1.04E+06	
T104	Pu238	8/26/92	B08TB9	1.6	0.0179	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.06E+06	1.04E+06	
T104	Pu238	8/26/92	B08TT7	1.6	0.0179	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.06E+06	1.04E+06	
T104	Pu238	8/26/92	B08TT8	1.6	0.0179	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.06E+06	1.04E+06	
C112	Pu238	3/1/92	B08DY1	2	0.0143	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.06E+06	1.03E+06	
S104	Pu238	8/2/92			0.0178	uCi/g	S		RAW	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/1/92	B08TJ4	1.6	0.0178	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/1/92	B08TL4	1.6	0.0178	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/1/92	B08TL3	1.6	0.0178	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.05E+06	1.03E+06	
T104	Pu238	8/26/92	B08TT8	1.6	0.0178	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/2/92			0.0177	uCi/g	S		RAW	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/1/92	B08TJ5	1.6	0.0177	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.05E+06	1.03E+06	
S104	Pu238	8/2/92			0.0176	uCi/g	S		RAW	Pu238	1.04E+06	1.02E+06	
S104	Pu238	8/1/92	B08TJ5	1.6	0.0176	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.04E+06	1.02E+06	
A101	Pu238						S		TRAC	Pu238		2.86E+06	
A103	Pu238						S		TRAC	Pu238		2.36E+07	
A106	Pu238						S		TRAC	Pu238		1.99E+07	
AX101	Pu238						S		TRAC	Pu238		5.89E+07	
AX102	Pu238						S		TRAC	Pu238		9.51E+07	
AX104	Pu238						S		TRAC	Pu238		3.15E+07	
B101	Pu238						S		TRAC	Pu238		3.39E+07	
B102	Pu238						S		TRAC	Pu238		1.17E+07	
B103	Pu238						S		TRAC	Pu238		1.98E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B202	Pu238						S		TRAC	Pu238		2.13E+07	
BX101	Pu238						S		TRAC	Pu238		6.10E+06	
BY104	Pu238						S		TRAC	Pu238		6.28E+06	
BY105	Pu238						S		TRAC	Pu238		1.99E+06	
BY106	Pu238						S		TRAC	Pu238		3.52E+06	
BY107	Pu238						S		TRAC	Pu238		3.95E+06	
BY108	Pu238						S		TRAC	Pu238		7.46E+06	
BY110	Pu238						S		TRAC	Pu238		2.35E+07	
C102	Pu238						S		TRAC	Pu238		2.98E+06	
C104	Pu238						S		TRAC	Pu238		3.76E+06	
C105	Pu238						S		TRAC	Pu238		1.76E+06	
C106	Pu238						S		TRAC	Pu238		1.38E+06	
C107	Pu238						S		TRAC	Pu238		1.14E+06	
C110	Pu238						S		TRAC	Pu238		1.84E+07	
C111	Pu238						S		TRAC	Pu238		3.87E+06	
C112	Pu238						S		TRAC	Pu238		1.11E+06	
S107	Pu238						S		TRAC	Pu238		1.91E+06	
S108	Pu238						S		TRAC	Pu238		2.88E+06	
SX101	Pu238						S		TRAC	Pu238		1.08E+06	
SX112	Pu238						S		TRAC	Pu238		1.19E+06	
T104	Pu238						S		TRAC	Pu238		1.27E+06	
T105	Pu238						S		TRAC	Pu238		1.92E+06	
TY101	Pu238						S		TRAC	Pu238		4.93E+06	
TY103	Pu238						S		TRAC	Pu238		5.48E+07	
TY104	Pu238						S		TRAC	Pu238		1.42E+07	
U110	Pu238						S		TRAC	Pu238		2.74E+06	
T107	Pu238	3/1/93	B08VD2	1.6	0.0166	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	9.83E+05	9.69E+05	
C112	Pu238	3/1/92	B08DY1	2	0.013	uCi/g	S	PRIMARY RESULT	TCD	Pu238	9.62E+05	9.41E+05	
C112	Pu238	3/1/92	B08DT4	1.6	0.0137	uCi/g	S	PRIMARY RESULT	TCD	Pu238	8.11E+05	7.93E+05	
T107	Pu238	3/1/93	B08VD2	1.6	0.0127	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	7.52E+05	7.41E+05	
T107	Pu238	3/1/93	B08VB9	1.19	0.0165	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	7.26E+05	7.16E+05	
T107	Pu238	3/1/93	B08VB9	1.19	0.0161	uCi/g	S	PRIMARY RESULT	TCD	Pu238	7.09E+05	6.99E+05	
T107	Pu238	3/1/93	B08V44	1.1	0.017	uCi/g	S	PRIMARY RESULT	TCD	Pu238	6.92E+05	6.82E+05	
T107	Pu238	3/1/93	B08VD2	1.6	0.0113	uCi/g	S	PRIMARY RESULT	TCD	Pu238	6.69E+05	6.59E+05	
T111	Pu238	11/1/91	B08WZ1	1.6	0.0113	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	6.69E+05	6.52E+05	
T111	Pu238	11/1/91	B08WR1	1.6	0.0107	uCi/g	S	PRIMARY RESULT	TCD	Pu238	6.33E+05	6.18E+05	
T111	Pu238	11/1/91	B08WZ0	1.6	0.0105	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	6.22E+05	6.06E+05	
T111	Pu238	11/1/91	B08WR1	1.6	0.0104	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	6.16E+05	6.00E+05	
T111	Pu238	11/1/91	B08WZ1	1.6	0.0104	uCi/g	S	PRIMARY RESULT	TCD	Pu238	6.16E+05	6.00E+05	
T111	Pu238	11/1/91	B08WR2	1.6	0.0104	uCi/g	S	PRIMARY RESULT	TCD	Pu238	6.16E+05	6.00E+05	
T111	Pu238	11/1/91	B08WR2	1.6	0.0103	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	6.10E+05	5.95E+05	
T111	Pu238	11/1/91	B08WZ0	1.6	0.01	uCi/g	S	PRIMARY RESULT	TCD	Pu238	5.92E+05	5.77E+05	
T107	Pu238	3/1/93	B08V44	1.1	0.0134	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	5.45E+05	5.38E+05	
B110	Pu238	4/1/90		1.17	0.0123423	uCi/g	I		RAW	Pu238	5.34E+05	5.15E+05	
S104	Pu238	8/2/92			0.00901	uCi/g	S		RAW	Pu238	5.33E+05	5.23E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S104	Pu238	8/1/92	B08TF6	1.6	0.00901	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	5.33E+05	5.23E+05	
S104	Pu238	8/1/92	B08TF6	1.6	0.00901	uCi/g	S	PRIMARY RESULT	TCD	Pu238	5.33E+05	5.23E+05	
S104	Pu238	8/2/92			0.00895	uCi/g	S		RAW	Pu238	5.30E+05	5.20E+05	
S104	Pu238	8/1/92	B08TF7	1.6	0.00895	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	5.30E+05	5.20E+05	
S104	Pu238	8/2/92			0.00888	uCi/g	S		RAW	Pu238	5.26E+05	5.16E+05	
S104	Pu238	8/1/92	B08TF7	1.6	0.00888	uCi/g	S	PRIMARY RESULT	TCD	Pu238	5.26E+05	5.16E+05	
B110	Pu238	4/1/90		1.21	0.0115315	uCi/g	I		RAW	Pu238	5.16E+05	4.97E+05	
T107	Pu238	3/1/93	B08VD2	1.6	0.00718	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	4.25E+05	4.19E+05	
B201	Pu238	8/1/91	B08F50	1.6	0.00689	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	4.08E+05	3.97E+05	
B201	Pu238	8/1/91	B08F50	1.6	0.00671	uCi/g	S	PRIMARY RESULT	TCD	Pu238	3.97E+05	3.87E+05	
B110	Pu238	4/1/90		1.31	0.0081081	uCi/g	I		RAW	Pu238	3.93E+05	3.79E+05	
B110	Pu238	4/1/90		1.37	0.0074775	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	3.79E+05	3.65E+05	
T107	Pu238	3/1/93	B08VD2	1.6	0.00613	uCi/g	S	PRIMARY RESULT	TCD	Pu238	3.63E+05	3.58E+05	
B110	Pu238	4/1/90		1.37	0.0065766	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	3.33E+05	3.21E+05	
T102	Pu238	3/1/93	B0B732	1.3166667	0.0063	uCi/g	S	PRIMARY RESULT	TCD	Pu238	3.07E+05	3.02E+05	
C110	Pu238	4/23/92	B08VJ5	1.6	0.00498	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.95E+05	2.89E+05	
C110	Pu238	4/23/92	B08VJ5	1.6	0.00493	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.92E+05	2.86E+05	
T107	Pu238	3/1/93	B08VB9	1.19	0.00635	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.80E+05	2.76E+05	
BX107	Pu238	6/1/92	B08X71	1.6	0.0045	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.66E+05	2.61E+05	
BX107	Pu238	6/1/92	B08X98	1.6	0.0045	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.66E+05	2.61E+05	
BX107	Pu238	6/1/92	B08X98	1.6	0.0045	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.66E+05	2.61E+05	
BX107	Pu238	6/1/92	B08X71	1.6	0.0045	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.66E+05	2.61E+05	
C110	Pu238	4/23/92	B08VN6	1.6	0.0045	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.66E+05	2.61E+05	
C110	Pu238	4/23/92	B08VK1	1.6	0.0045	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.66E+05	2.61E+05	
C110	Pu238	4/23/92	B08VN6	1.6	0.0045	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.66E+05	2.61E+05	
BX107	Pu238	6/1/92	B08X97	1.6	0.00449	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.66E+05	2.60E+05	
BX107	Pu238	6/1/92	B08X97	1.6	0.00449	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.66E+05	2.60E+05	
C110	Pu238	4/23/92	B08VP1	1.6	0.00448	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.65E+05	2.60E+05	
C110	Pu238	4/23/92	B08VK1	1.6	0.00447	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.65E+05	2.59E+05	
C110	Pu238	4/23/92	B08VP1	1.6	0.00445	uCi/g	S	PRIMARY RESULT	TCD	Pu238	2.63E+05	2.58E+05	
T102	Pu238	3/1/93	B0B732	1.3166667	0.00538	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.62E+05	2.58E+05	
T107	Pu238	3/1/93	B08VB9	1.19	0.00587	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.58E+05	2.55E+05	
B110	Pu238	4/1/90		1.31	0.0046847	uCi/g	I		RAW	Pu238	2.27E+05	2.19E+05	
B111	Pu238	10/1/91	B08XC0	1.6	0.00377	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.23E+05	2.18E+05	
B111	Pu238	10/1/91	B08XC2	1.6	0.00366	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.17E+05	2.11E+05	
C112	Pu238	3/1/92	B08DW5	1.6	0.00338	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	2.00E+05	1.96E+05	
B111	Pu238	10/1/91	B08XC1	1.6	0.00336	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.99E+05	1.94E+05	
C112	Pu238	3/1/92	B08DW5	1.6	0.00333	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.97E+05	1.93E+05	
B111	Pu238	10/1/91	B08XC1	1.6	0.00327	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.94E+05	1.89E+05	
B111	Pu238	4/15/93	93-4312H1		0.00308	uCi/gm	G	Sludge	Braun	Pu238	1.82E+05	1.80E+05	
B111	Pu238	10/1/91	B08XC0	1.6	0.00308	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.82E+05	1.78E+05	
B110	Pu238	4/1/90		1.36	0.0035586	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	1.79E+05	1.72E+05	
B111	Pu238	10/1/91	B08XC2	1.6	0.00298	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.76E+05	1.72E+05	
B202	Pu238	6/7/91	B0BC04	1.6	0.00298	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.76E+05	1.72E+05	
B110	Pu238	4/1/90		1.36	0.0034685	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	1.75E+05	1.68E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B110	Pu238	8/9/89	90-0715-A-2	1.355	7500	dpm/g	I	core 4	RAW	Pu238	1.70E+05	1.63E+05	
B110	Pu238	4/1/90		1.36	0.0033333	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	1.68E+05	1.62E+05	
B110	Pu238	4/1/90		1.21	0.003527	uCi/g	I		RAW	Pu238	1.58E+05	1.52E+05	
B110	Pu238	8/9/89	90-0715-A-1	1.355	6200	dpm/g	I	core 4	RAW	Pu238	1.40E+05	1.34E+05	
B111	Pu238	10/1/91	B08XC3	1.6	0.00236	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.40E+05	1.36E+05	
B202	Pu238	12/31/91					G	Sludge	Wastren	Pu238	1.36E+05	1.33E+05	
C110	Pu238	4/23/92	B08W47	1.6	0.00225	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.33E+05	1.30E+05	
C110	Pu238	4/23/92	B08W47	1.6	0.00225	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.33E+05	1.30E+05	
B110	Pu238	8/9/89	90-0714-A-1	1.355	5600	dpm/g	I	core 4	RAW	Pu238	1.27E+05	1.21E+05	
B110	Pu238	4/1/90		1.36	0.002518	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	1.27E+05	1.22E+05	
B202	Pu238	6/7/91	B0BC11	1.6	0.0021	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.24E+05	1.21E+05	
B202	Pu238	6/7/91	B0BC11	1.6	0.00206	uCi/g	S	PRIMARY RESULT	TCD	Pu238	1.22E+05	1.19E+05	
B110	Pu238	8/9/89	90-0714-A-2	1.355	5300	dpm/g	I	core 4	RAW	Pu238	1.20E+05	1.15E+05	
B110	Pu238	4/1/90		1.36	0.0023649	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	1.19E+05	1.15E+05	
B111	Pu238	10/1/91	B08XC3	1.6	0.00194	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.15E+05	1.12E+05	
B110	Pu238	4/1/90		1.36	0.0022072	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	1.11E+05	1.07E+05	
B202	Pu238	6/7/91	B0BC04	1.6	0.00177	uCi/g	S	DUPLICATE RESULT	TCD	Pu238	1.05E+05	1.02E+05	
Minimum Plot Limit: 1.00E+05 Bq/L													
B110	Pu238	4/1/90		1.34	0.0017568	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	8.71E+04	8.39E+04	
B110	Pu238	8/9/89	90-0714-A-3	1.355	3500	dpm/g	I	core 4	RAW	Pu238	7.92E+04	7.59E+04	
B110	Pu238	4/1/90		1.32	0.0014414	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	7.04E+04	6.78E+04	
B110	Pu238	4/1/90		1.36	0.0013919	uCi/g	I		RAW	Pu238	7.00E+04	6.75E+04	
B110	Pu238	4/1/90		1.32	0.0014099	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	6.89E+04	6.63E+04	
B110	Pu238	4/1/90		1.34	0.0011937	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	5.92E+04	5.70E+04	
B110	Pu238	4/1/90		1.17	0.0012072	uCi/g	I		RAW	Pu238	5.23E+04	5.03E+04	
T104	Pu238	8/26/92	B08S16	1.03	0.00018	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	6.66E+03	6.54E+03	
T104	Pu238	8/26/92	B08RX7	1.15	0.00018	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	6.66E+03	6.54E+03	
T104	Pu238	8/26/92	B08S16	1.03	0.00018	uCi/mL	S	PRIMARY RESULT	TCD	Pu238	6.66E+03	6.54E+03	
T104	Pu238	8/26/92	B08RX7	1.15	0.00018	uCi/mL	S	PRIMARY RESULT	TCD	Pu238	6.66E+03	6.54E+03	
B110	Pu238	4/1/90		1.36	0.0001216	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	6.12E+03	5.89E+03	
B110	Pu238	4/1/90		1.36	9.55E-05	uCi/g	I		RAW	Pu238	4.81E+03	4.63E+03	
B110	Pu238	4/1/90		1.36	8.784E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	4.42E+03	4.26E+03	
B110	Pu238	8/9/89	90-0716-C-2	1.355	170	dpm/g	I	core 4	RAW	Pu238	3.85E+03	3.69E+03	
B110	Pu238	4/1/90		1.36	7.432E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	3.74E+03	3.60E+03	
B110	Pu238	4/1/90		1.36	5.856E-05	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	2.95E+03	2.84E+03	
B110	Pu238	8/9/89	90-0716-C-1	1.355	130	dpm/g	I	core 4	RAW	Pu238	2.94E+03	2.82E+03	
B110	Pu238	8/9/89	90-0640-C-1	1.355	110	dpm/g	I	core 2	RAW	Pu238	2.49E+03	2.39E+03	
B110	Pu238	8/9/89	90-0640-C-2	1.355	110	dpm/g	I	core 2	RAW	Pu238	2.49E+03	2.39E+03	
B110	Pu238	4/1/90		1.33	5.045E-05	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	2.48E+03	2.39E+03	
B110	Pu238	4/1/90		1.33	0.00005	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	2.46E+03	2.37E+03	
B110	Pu238	4/1/90		1.37	4.55E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	2.31E+03	2.22E+03	
B110	Pu238	4/1/90		1.34	4.176E-05	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	2.07E+03	1.99E+03	
B110	Pu238	4/1/90		1.37	3.653E-05	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	1.85E+03	1.78E+03	
B110	Pu238	4/1/90		1.34	3.635E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	1.80E+03	1.74E+03	
B110	Pu238	4/1/90		1.36	3.018E-05	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	1.52E+03	1.46E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B110	Pu238	4/1/90		1.36	2.973E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	1.50E+03	1.44E+03	
B110	Pu238	4/1/90		1.32	1.527E-05	uCi/g	I	DUPLICATE	B110 - Core Data	Pu238	7.46E+02	7.18E+02	
B110	Pu238	4/1/90		1.32	9.55E-06	uCi/g	I	PRIMARY	B110 - Core Data	Pu238	4.66E+02	4.49E+02	
B110	Pu238	8/9/89	90-0716-C-5	1.355	15	dpm/g	I	core 4	RAW	Pu238	3.39E+02	3.25E+02	
A102	Pu238						S		TRAC	Pu238		4.48E+05	
A104	Pu238						S		TRAC	Pu238		5.13E+05	
A105	Pu238						S		TRAC	Pu238		5.21E+03	
B104	Pu238						S		TRAC	Pu238		6.89E+03	
B105	Pu238						S		TRAC	Pu238		2.31E+03	
B106	Pu238						S		TRAC	Pu238		6.55E+02	
B107	Pu238						S		TRAC	Pu238		2.47E+04	
B108	Pu238						S		TRAC	Pu238		1.97E+03	
B109	Pu238						S		TRAC	Pu238		2.03E+03	
B110	Pu238						S		TRAC	Pu238		2.34E+05	
B111	Pu238						S		TRAC	Pu238		3.14E+03	
B112	Pu238						S		TRAC	Pu238		1.69E+05	
B204	Pu238						S		TRAC	Pu238		8.99E+05	
BX102	Pu238						S		TRAC	Pu238		1.67E+05	
BX103	Pu238						S		TRAC	Pu238		2.32E+03	
BX104	Pu238						S		TRAC	Pu238		3.04E+04	
BX105	Pu238						S		TRAC	Pu238		3.13E+03	
BX106	Pu238						S		TRAC	Pu238		2.11E+03	
BX107	Pu238						S		TRAC	Pu238		1.36E+05	
BX108	Pu238						S		TRAC	Pu238		2.36E+04	
BX109	Pu238						S		TRAC	Pu238		6.27E+05	
BX110	Pu238						S		TRAC	Pu238		1.87E+04	
BX111	Pu238						S		TRAC	Pu238		6.73E+03	
BX112	Pu238						S		TRAC	Pu238		3.64E+04	
BY101	Pu238						S		TRAC	Pu238		1.13E+04	
BY102	Pu238						S		TRAC	Pu238		4.00E+03	
BY103	Pu238						S		TRAC	Pu238		1.73E+05	
BY109	Pu238						S		TRAC	Pu238		3.58E+03	
BY111	Pu238						S		TRAC	Pu238		1.33E+05	
BY112	Pu238						S		TRAC	Pu238		6.79E+03	
C101	Pu238						S		TRAC	Pu238		3.21E+05	
C103	Pu238						S		TRAC	Pu238		9.52E+04	
C108	Pu238						S		TRAC	Pu238		3.03E+05	
C109	Pu238						S		TRAC	Pu238		3.89E+05	
C202	Pu238						S		TRAC	Pu238		4.20E+03	
C203	Pu238						S		TRAC	Pu238		7.10E+03	
S101	Pu238						S		TRAC	Pu238		6.75E+05	
S102	Pu238						S		TRAC	Pu238		7.99E+04	
S103	Pu238						S		TRAC	Pu238		3.25E+03	
S104	Pu238						S		TRAC	Pu238		3.39E+05	
S105	Pu238						S		TRAC	Pu238		1.67E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S106	Pu238						S		TRAC	Pu238		1.87E+04	
S109	Pu238						S		TRAC	Pu238		5.90E+03	
S110	Pu238						S		TRAC	Pu238		3.11E+05	
S111	Pu238						S		TRAC	Pu238		7.31E+04	
S112	Pu238						S		TRAC	Pu238		1.15E+03	
SX102	Pu238						S		TRAC	Pu238		4.34E+04	
SX103	Pu238						S		TRAC	Pu238		6.44E+03	
SX104	Pu238						S		TRAC	Pu238		7.90E+05	
SX105	Pu238						S		TRAC	Pu238		3.74E+05	
SX107	Pu238						S		TRAC	Pu238		8.08E+05	
SX108	Pu238						S		TRAC	Pu238		3.56E+05	
SX109	Pu238						S		TRAC	Pu238		4.01E+05	
SX110	Pu238						S		TRAC	Pu238		8.13E+04	
SX111	Pu238						S		TRAC	Pu238		7.26E+05	
SX113	Pu238						S		TRAC	Pu238		2.73E+04	
SX114	Pu238						S		TRAC	Pu238		2.15E+05	
SX115	Pu238						S		TRAC	Pu238		1.16E+05	
T101	Pu238						S		TRAC	Pu238		1.60E+05	
T103	Pu238						S		TRAC	Pu238		6.51E+04	
T106	Pu238						S		TRAC	Pu238		3.38E+05	
T107	Pu238						S		TRAC	Pu238		1.40E+05	
T108	Pu238						S		TRAC	Pu238		2.31E+04	
T110	Pu238						S		TRAC	Pu238		7.18E+03	
T111	Pu238						S		TRAC	Pu238		1.19E+04	
T112	Pu238						S		TRAC	Pu238		1.47E+05	
T203	Pu238						S		TRAC	Pu238		9.51E+05	
TX101	Pu238						S		TRAC	Pu238		1.07E+01	
TX102	Pu238						S		TRAC	Pu238		9.49E+01	
TX105	Pu238						S		TRAC	Pu238		9.60E+01	
TX106	Pu238						S		TRAC	Pu238		5.41E+01	
TX108	Pu238						S		TRAC	Pu238		1.59E+04	
TX109	Pu238						S		TRAC	Pu238		9.23E+05	
TX110	Pu238						S		TRAC	Pu238		1.03E+05	
TX111	Pu238						S		TRAC	Pu238		1.60E+04	
TX112	Pu238						S		TRAC	Pu238		1.17E+03	
TX113	Pu238						S		TRAC	Pu238		1.90E+04	
TX114	Pu238						S		TRAC	Pu238		3.00E+05	
TX115	Pu238						S		TRAC	Pu238		3.08E+04	
TX116	Pu238						S		TRAC	Pu238		1.24E+02	
TX117	Pu238						S		TRAC	Pu238		8.49E+02	
TX118	Pu238						S		TRAC	Pu238		8.31E+04	
TY102	Pu238						S		TRAC	Pu238		4.85E+05	
TY105	Pu238						S		TRAC	Pu238		9.42E+05	
TY106	Pu238						S		TRAC	Pu238		7.98E+04	
U101	Pu238						S		TRAC	Pu238		3.39E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Single-Shell Tank Solids [Sketch ES-VAL-CR14]
 ASA Value: 1.90E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U103	Pu238						S		TRAC	Pu238		1.15E+03	
U107	Pu238						S		TRAC	Pu238		9.91E+04	
U108	Pu238						S		TRAC	Pu238		2.84E+04	
U111	Pu238						S		TRAC	Pu238		7.78E+03	
U112	Pu238						S		TRAC	Pu238		4.83E+03	
U201	Pu238						S		TRAC	Pu238		1.31E+03	
U202	Pu238						S		TRAC	Pu238		1.98E+03	
U203	Pu238						S		TRAC	Pu238		1.83E+03	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information				Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L		
C106	Pu	3/15/76	T-3294	1.162	1.06E+03	g/gal	L		RAW	Pu239/240	7.39E+11		11
TX118	Pu	10/16/81			1.01E-03	g/g	L		RAW	Pu239/240	2.93E+09		16
AX104	Pu	8/3/77	JS#7-AL#D-78		9.55E-02	g/l	P		RAW	Pu239/240	2.52E+08		11
U109	Pu	11/12/75			6.15E-02	g/L	P	Supernate	Wastren	Pu239/240	1.62E+08		11
C103	Pu239/240	6/3/91	R8109	1.06	3.30E+03	uCi/L	P	supernate	RAW	Pu239/240	1.22E+08		6
C201	Pu	12/4/78			4.07E-02	g/L	P	Supernate	Wastren	Pu239/240	1.07E+08		15
C106	Pu239/240	4/1/90	1		2.34E+03	uCi/kg	L	57 +/-	RAW	Pu239/240	9.52E+07		2
C106	Pu239	4/1/90	RAT-C106-4B		2.34	uCi/gm	U	Unknown	Braun	Pu239/240	9.52E+07		2
C103	Pu239/240	6/3/91	R8108	1.07	2.50E+03	uCi/L	P	supernate	RAW	Pu239/240	9.25E+07		6
SX103	Pu239/240	3/18/76		1.601	6.60E-01	uCi/g	P	Supernatant	RAW	Pu239/240	3.91E+07		11
U109	Pu	11/12/75		1.24	5.86E-05	M	P	Supernatant Liquid	RAW	Pu239/240	3.69E+07		6
ASA Value: 3.62E+07 Bq/L													
C106	Pu239/240	5/19/86	G1XDOOXX	1.22	978	uCi/l	L	Liquor	Braun	Pu239/240	3.62E+07		*
C106	Pu239/240	5/19/86		1.22	9.78E+02	uCi/L	L	Core, liquid	RAW	Pu239/240	3.62E+07		*
C106	Pu239/240	4/14/87		1.22	9.78E+02	uCi/L	L	Drainable Liquor	RAW	Pu239/240	3.62E+07		*
C106	Pu239/240	5/19/87	G1XDXXXX	1.22	9.78E+02	uCi/l	L	Drainable Liquor	RAW	Pu239/240	3.62E+07		*
C105	Pu239	4/1/90	RAT-C105-4B		0.747	uCi/gm	U	Unknown	Braun	Pu239/240	3.04E+07		
SX103	Pu239/240	3/18/76			6.60E-01	uCi/g	P	Supernatant	RAW	Pu239/240	2.69E+07		
C107	Pu239/240	6/3/91	R-8046	1.14	462	uCi/l	P	Supernate	Braun	Pu239/240	1.71E+07		
C107	Pu239/240	6/3/91	8086	1.14	4.62E+02	uCi/L	P	supernate	RAW	Pu239/240	1.71E+07		
T107	Pu	3/5/85			3.29E+02	uCi/l	P	Neutralized PFP-21 +	RAW	Pu239/240	1.22E+07		
A101	Pu	10/14/74	T-8936	1.289	0.0165	gm/gal	P	Supernate	Braun	Pu239/240	1.15E+07		
A101	Pu	10/14/74	T-8936	1.289	1.65E-02	gm/gal	U		RAW	Pu239/240	1.15E+07		
U109	Pu	11/12/75	RAT-U109-1	1.05	0.0000586	moles/l	P	Supernate	Braun	Pu239/240	9.76E+06		
U109	Pu	11/12/75	RAT-U109-1	1.24	0.0000586	moles/l	P	Supernate	Braun	Pu239/240	9.76E+06		
TX107	Pu	9/2/75	T-7616		1.29E-02	g/gal	L	No Solids	RAW	Pu239/240	8.99E+06		
TX107	Pu	9/2/75	T-7616		0.0129	gm/gal	P	Supernate	Braun	Pu239/240	8.99E+06		
TX118	Pu	6/6/75	T-5179	1.18	0.0108	gm/gal	P	Supernate	Braun	Pu239/240	7.53E+06		
TX101	Pu	7/24/75	T-6426	1.168	1.06E-02	g/gal	L	No Solids	RAW	Pu239/240	7.39E+06		
TX107	Pu	8/26/75	T-7445		1.02E-02	g/gal	L	No Solids	RAW	Pu239/240	7.11E+06		
TX107	Pu	8/26/75	T-7445		0.0102	gm/gal	P	Supernate	Braun	Pu239/240	7.11E+06		
TX118	Pu	6/9/75	T-5253	1.08	0.00962	gm/gal	P	Supernate	Braun	Pu239/240	6.70E+06		
TX118	Pu	6/9/75	T-5253	1.08	9.62E-03	g/gal	U	Nondeterminable Solids	RAW	Pu239/240	6.70E+06		
TX118	Pu	8/11/75	T-6959	1.1653	2.49E-03	g/l	L	No Solids	RAW	Pu239/240	6.57E+06		
TX118	Pu	8/11/75	T-6959	1.1653	0.00249	gm/l	P	Supernate	Braun	Pu239/240	6.57E+06		
SX102	Pu	8/19/77	8992		0.0023	gm/l	U	Unknown	Braun	Pu239/240	6.07E+06		
SX102	Pu	8/19/77	8992JS#15		2.30E-03	g/l	U		RAW	Pu239/240	6.07E+06		
TX107	Pu	9/8/75	T-7815		8.70E-03	g/gal	L	No Solids	RAW	Pu239/240	6.06E+06		
TX107	Pu	9/8/75	T-7815		0.0087	gm/gal	P	Supernate	Braun	Pu239/240	6.06E+06		
TX107	Pu	8/18/75			2.28E-03	g/L	P	Supernate	Wastren	Pu239/240	6.01E+06		
TX107	Pu	8/18/75	T-7178		8.63E-03	gm/gal	L	No Solids	RAW	Pu239/240	6.01E+06		
TX107	Pu	8/18/75	T-7178		0.00863	gm/gal	P	Supernate	Braun	Pu239/240	6.01E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information				Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L		
TX107	Pu	8/18/75	T-7178		0.00863	gm/gal	P	Supernate	Braun	Pu239/240	6.01E+06		
C105	Pu239/240	4/11/86	C1XD00XX	1.23	155	uCi/l	L	Liquor	Braun	Pu239/240	5.74E+06		
C105	Pu239/240	5/19/87		1.23	1.55E+02	uCi/L	L	drainable liquor	RAW	Pu239/240	5.74E+06		
C105	Pu239/240	5/19/87	C1XDXXXX	1.23	1.55E+02	uCi/l	L	Drainable Liquor	RAW	Pu239/240	5.74E+06		
C110	Pu239/240	11/20/90			1.53E+02	uCi/L	P	supernate	RAW	Pu239/240	5.66E+06		
C112	Pu	11/20/74	T-6185	1.21	0.000032	moles/l	P	Supernate	Braun	Pu239/240	5.33E+06		
TX118	Pu	7/21/75	T-6309	1.160	7.26E-03	g/gal	L		RAW	Pu239/240	5.06E+06		
TX118	Pu	7/21/75	T-6309	1.16	0.00726	gm/gal	P	Supernate	Braun	Pu239/240	5.06E+06		
T105	Pu239/240	5/28/93	B08WT3	0.9933333	1.37E-01	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	5.04E+06		
T105	Pu239/240	5/28/93	B08WT3	0.9933333	1.35E-01	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	4.98E+06		
A102	Pu	3/13/80	7956	1.065	0.0000253	moles/l	P	Supernate	Braun	Pu239/240	4.21E+06		
AX102	Pu	11/14/88			1.58E-03	g/L	P	Supernate	Wastren	Pu239/240	4.17E+06		
TX118	Pu	11/24/75	T-87	1.255	5.83E-03	gm/gal	L	dark brown	RAW	Pu239/240	4.06E+06		
TX118	Pu	11/24/75	T-87	1.255	0.00583	gm/gal	P	Supernate	Braun	Pu239/240	4.06E+06		
TX118	Pu	11/1/75	T-9626	1.27	0.00568	gm/gal	P	Supernate	Braun	Pu239/240	3.96E+06		
TX118	Pu	11/10/75	T-9626	1.272	5.68E-03	gm/gal	L	No visual solids	RAW	Pu239/240	3.96E+06		
S103	Pu	12/6/74			1.48E-03	g/L	P	Supernate	Wastren	Pu239/240	3.90E+06		
AX102	Pu	11/14/88	RAT-AX102-3		97	uCi/l	P	Supernate	Braun	Pu239/240	3.59E+06		
AX102	Pu	11/18/88			9.70E+01	uCi/l	L		RAW	Pu239/240	3.59E+06		
C103	Pu	3/28/75	T-3097	1.1434	0.00506	gm/gal	P	Supernate	Braun	Pu239/240	3.53E+06		
TX118	Pu	7/14/75	T-6083	1.22	0.00502	gm/gal	P	Supernate	Braun	Pu239/240	3.50E+06		
T204	Pu	12/4/78			1.32E-03	g/L	L	Drainable Liquid	Wastren	Pu239/240	3.48E+06		
TX118	Pu	12/1/75	T-267	1.23	0.00498	gm/gal	P	Supernate	Braun	Pu239/240	3.47E+06		
TX104	Pu	4/19/76	T-4391	1.4	1.21E-03	gm/l	L		RAW	Pu239/240	3.19E+06		
TX118	Pu	12/22/75	T-864	1.31	0.00447	gm/gal	P	Supernate	Braun	Pu239/240	3.12E+06		
C104	Pu	12/18/75	T-769	1.16	0.00439	gm/gal	P	Supernate	Braun	Pu239/240	3.06E+06		
T107	Pu	3/5/85			7.65E+01	uCi/l	P	Neutralized PFP-2	RAW	Pu239/240	2.83E+06		
TX118	Pu	6/16/75	T-5393	1.16	4.05E-03	g/gal	L		RAW	Pu239/240	2.82E+06		
TX118	Pu	6/16/75	T-5393	1.16	0.00405	gm/gal	P	Supernate	Braun	Pu239/240	2.82E+06		
TX118	Pu	11/19/75	T-9878	1.195	4.01E-03	gm/gal	L	dark brown	RAW	Pu239/240	2.79E+06		
TX118	Pu	11/19/75	T-9878	1.195	0.00401	gm/gal	P	Supernate	Braun	Pu239/240	2.79E+06		
C104	Pu	12/1/75	T-225	1.164	3.90E-03	gm/gal	L	No Solids	RAW	Pu239/240	2.72E+06		
C104	Pu	12/1/75	T-225	1.164	0.0039	gm/gal	P	Supernate	Braun	Pu239/240	2.72E+06		
TX118	Pu	5/29/75	T-4900	1.2	0.00386	gm/gal	P	Supernate	Braun	Pu239/240	2.69E+06		
C104	Pu	10/6/75	T-8583	1.227	3.78E-03	gm/gal	L		RAW	Pu239/240	2.63E+06		
C104	Pu	10/6/75	T-8583	1.227	0.00378	gm/gal	P	Supernate	Braun	Pu239/240	2.63E+06		
TX118	Pu	12/28/75	T-1036	1.178	3.72E-03	gm/gal	L	dark brown	RAW	Pu239/240	2.59E+06		
TX118	Pu	12/28/75	T-1036	1.18	0.00372	gm/gal	P	Supernate	Braun	Pu239/240	2.59E+06		
TX109	Pu	12/28/75	T-1035	1.398	3.70E-03	gm/gal	L	No Solids	RAW	Pu239/240	2.58E+06		
TX109	Pu	12/28/75	T-1035	1.398	0.0037	gm/gal	P	Supernate	Braun	Pu239/240	2.58E+06		
TX118	Pu	10/27/75	T-9252	1.25	3.60E-03	g/gal	L	No visible solids	RAW	Pu239/240	2.51E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L			
TX118	Pu	10/27/75	T-9252	1.25	0.0036	gm/gal	P	Supernate	Braun	Pu239/240	2.51E+06			
S102	Pu	2/17/76	T-2395	1.25	3.33E-03	g/gal	L	No Solids	RAW	Pu239/240	2.32E+06			
TX118	Pu	9/29/75	T-8404	1.229	0.00326	gm/gal	P	Supernate	Braun	Pu239/240	2.27E+06			
C103	Pu	1/3/75	T-1174	1.162	3.24E-03	g/gal	L	No Solids	RAW	Pu239/240	2.26E+06			
C103	Pu	1/3/75	T-1174	1.162	0.00324	gm/gal	P	Supernate	Braun	Pu239/240	2.26E+06			
TX118	Pu	1/14/76	T-1451	1.289	2.88E-03	g/gal	L	dark brown	RAW	Pu239/240	2.01E+06			
TX118	Pu	1/14/76	T-1451	1.29	0.00288	gm/gal	P	Supernate	Braun	Pu239/240	2.01E+06			
C106	Pu	9/8/75	T-7808	1.14	2.69E-03	gm/gal	L		RAW	Pu239/240	1.87E+06			
C106	Pu	9/8/75	T-7808	1.14	0.00269	gm/gal	P	Supernate	Braun	Pu239/240	1.87E+06			
TX118	Pu	1/5/76	T-1246	1.339	2.69E-03	gm/gal	L	dark brown	RAW	Pu239/240	1.87E+06			
TX118	Pu	1/5/76	T-1246	1.34	0.00269	gm/gal	P	Supernate	Braun	Pu239/240	1.87E+06			
C103	Pu	1/24/75	T-1685	1.1729	2.65E-03	g/gal	L	Liquid	RAW	Pu239/240	1.85E+06			
C103	Pu	1/24/75	T-1685	1.1729	0.00265	gm/gal	P	Supernate	Braun	Pu239/240	1.85E+06			
TX118	Pu	5/19/75	T-4553		0.0026	gm/gal	P	Supernate	Braun	Pu239/240	1.81E+06			
TX118	Pu	5/19/75	T-4553		2.60E-03	g/gal	U	Undetermine Solids	RAW	Pu239/240	1.81E+06			
SX104	Pu	7/7/86		1.4	6.80E-04	g/l	L	Bottom	RAW	Pu239/240	1.79E+06			
TX118	Pu	1/19/76	T-1625	1.277	2.57E-03	gm/gal	L	No solids	RAW	Pu239/240	1.79E+06			
TX118	Pu	1/19/76	T-1625	1.28	0.00257	gm/gal	P	Supernate	Braun	Pu239/240	1.79E+06			
A101	Pu	10/11/83			6.52E-04	g/L	L	Drainable Liquid	Wastren	Pu239/240	1.72E+06			
TX109	Pu	2/2/75	T-2034	1.386	2.46E-03	gm/gal	L	No Solids	RAW	Pu239/240	1.71E+06			
TX109	Pu	2/2/76	T-2034	1.386	0.00246	gm/gal	P	Supernate	Braun	Pu239/240	1.71E+06			
C103	Pu	5/1/75	T-4073	1.16	0.00241	gm/gal	P	Supernate	Braun	Pu239/240	1.68E+06			
SX104	Pu	7/7/86		1.414	6.36E-04	g/l	L	Top	RAW	Pu239/240	1.68E+06			
U111	Pu	5/25/76	9762	1.25	0.0024	gm/gal	P	Supernate	Braun	Pu239/240	1.67E+06			
TX118	Pu	1/26/76	T-1809	1.296	2.38E-03	gm/gal	L	No solids	RAW	Pu239/240	1.66E+06			
TX118	Pu	1/26/76	T-1809	1.296	0.00238	gm/gal	P	Supernate	Braun	Pu239/240	1.66E+06			
TX118	Pu	10/13/75	T-8758	1.175	2.35E-03	gm/gal	L	Solids Unknown	RAW	Pu239/240	1.64E+06			
TX118	Pu	10/13/75	T-8758	1.175	0.00235	gm/gal	P	Supernate	Braun	Pu239/240	1.64E+06			
C106	Pu239/240	3/1/76	7	1.14	4.41E+01	uCi/L	L		RAW	Pu239/240	1.63E+06			
C110	Pu239/240	6/3/91	R-8087	1.2	44	uCi/l	P	Supernate	Braun	Pu239/240	1.63E+06			
C110	Pu239/240	6/3/91	8087	1.2	4.40E+01	uCi/L	P	supernate	RAW	Pu239/240	1.63E+06			
C104	Pu	11/19/74	T-5312	1.1539	0.00219	gm/gal	P	Supernate	Braun	Pu239/240	1.53E+06			
TX118	Pu	2/11/76	T-2258	1.373	2.16E-03	g/gal	L	No solids	RAW	Pu239/240	1.51E+06			
TX118	Pu	2/11/76	T-2258	1.37	0.00216	gm/gal	P	Supernate	Braun	Pu239/240	1.51E+06			
C104	Pu	12/5/75	T-374	1.137	2.04E-03	gm/gal	L		RAW	Pu239/240	1.42E+06			
C104	Pu	12/5/75	T-374	1.137	0.00204	gm/gal	P	Supernate	Braun	Pu239/240	1.42E+06			
TX105	Pu	1/21/74	T-805		0.0004938	gm/l	L	Liquor	Braun	Pu239/240	1.30E+06			
SX106	Pu	2/25/77	RAT-SX106-1	1.458	0.000492	gm/l	P	Supernate	Braun	Pu239/240	1.30E+06			
A102	Pu	8/19/75	T-7252	1.087	1.85E-03	gm/gal	L	No solids	RAW	Pu239/240	1.29E+06			
A102	Pu	8/19/75	T-7252	1.087	0.00185	gm/gal	P	Supernate	Braun	Pu239/240	1.29E+06			
TX118	Pu	4/10/75	T-3491	1.22	0.00183	gm/gal	P	Supernate	Braun	Pu239/240	1.28E+06			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

Tank Waste Characterization Sample Information													Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Bq/L	Decayed	ID	
TX118	Pu	8/10/75	T-3491	1.22	1.83E-03	g/gal	U	Nonterminable Solids	RAW	Pu239/240	1.28E+06					
C104	Pu	5/13/74	T-3621	1.0761	4.73E-04	g/l	L	No Solids	RAW	Pu239/240	1.25E+06					
C104	Pu	5/13/74	T-3621	1.0761	0.000473	gm/l	P	Supernate	Braun	Pu239/240	1.25E+06					
C103	Pu239/240	5/14/86	F2XDOOXX	1.08	33.7	uCi/l	L	Liquor	Braun	Pu239/240	1.25E+06					
C103	Pu239/240	5/19/87	F2XDXXXX	1.08	3.37E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	1.25E+06					
C103	Pu239/240	5/7/86	F1XDOOXX	1.11	33.2	uCi/l	L	Liquor	Braun	Pu239/240	1.23E+06					
C103	Pu239/240	5/19/87	F1DXDXXX	1.11	3.32E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	1.23E+06					
C106	Pu	9/15/75	T-8059	1.18	0.00174	gm/gal	P	Supernate	Braun	Pu239/240	1.21E+06					
TX118	Pu	10/19/78	4753	1.131	1.73E-03	g/gal	L	amber	RAW	Pu239/240	1.21E+06					
TX118	Pu	10/19/78	4753	1.13	0.00173	gm/gal	P	Supernate	Braun	Pu239/240	1.21E+06					
TX118	Pu	2/9/79	7233	1.132	4.53E-04	g/l	L	yellow	RAW	Pu239/240	1.20E+06					
TX118	Pu	2/9/79	7233	1.13	0.000453	gm/l	P	Supernate	Braun	Pu239/240	1.20E+06					
TX118	Pu	4/21/75	T-3751	1.2	1.66E-03	g/gal	L		RAW	Pu239/240	1.16E+06					
TX118	Pu	4/21/75	T-3751	1.2	0.00166	gm/gal	P	Supernate	Braun	Pu239/240	1.16E+06					
TX118	Pu	4/24/75	T-3909	1.2257	1.64E-03	g/gal	L	No Solids	RAW	Pu239/240	1.14E+06					
TX118	Pu	4/24/75	T-3909	1.2257	0.00164	gm/gal	P	Supernate	Braun	Pu239/240	1.14E+06					
A103	Pu239/240	3/26/86	B1XDOOXX	1.476	28.5	uCi/l	L	Liquor	Braun	Pu239/240	1.05E+06					
A103	Pu239/240	5/19/87	B1DXDXXX	1.476	2.85E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	1.05E+06					
C106	Pu239/240	1/1/76	8	1.18	2.85E+01	uCi/L	L		RAW	Pu239/240	1.05E+06					
Minimum Plot Limit: 1.00E+06 Bq/L																
TX118	Pu	4/7/79	8871	1.152	3.57E-04	g/l	L	clear yellow	RAW	Pu239/240	9.42E+05					
TX118	Pu	4/7/79	8871	1.15	0.000357	gm/l	P	Supernate	Braun	Pu239/240	9.42E+05					
A103	Pu239/240	4/3/86	B2XDOOXX	1.48	25.2	uCi/l	L	Liquor	Braun	Pu239/240	9.32E+05					
A103	Pu239/240	5/19/87	B2DXDXXX	1.48	2.52E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	9.32E+05					
C103	Pu239/240	11/20/90	R8109	1.06	2.40E+01	uCi/L	P	supernate	RAW	Pu239/240	8.88E+05					
C103	Pu239/240	11/20/90	R8108	1.07	2.40E+01	uCi/L	P	supernate	RAW	Pu239/240	8.88E+05					
C103	Pu239/240	6/3/91	R-8109	1.06	24	uCi/l	P	Supernate	Braun	Pu239/240	8.88E+05					
C103	Pu239/240	6/3/91	R-8108	1.07	24	uCi/l	P	Supernate	Braun	Pu239/240	8.88E+05					
TX104	Pu	4/19/76			3.20E-04	g/L	P	Supernate	Wastren	Pu239/240	8.44E+05					
TX104	Pu	4/19/76	T-4391	1.4	0.00121	gm/gal	P	Supernate	Braun	Pu239/240	8.43E+05					
TX118	Pu239/240	3/21/79	8385	1.089	0.000304	gm/l	P	Supernate	Braun	Pu239/240	8.02E+05					
BX104	Pu	2/26/86			3.00E-04	g/L	L	Drainable Liquid	Wastren	Pu239/240	7.91E+05					
C106	Pu	3/15/76	T-3294	1.16	0.00106	gm/gal	P	Supernate	Braun	Pu239/240	7.39E+05					
U103	Pu	4/16/76		1.305	2.70E-04	g/l	P	Supernatant	RAW	Pu239/240	7.12E+05					
U103	Pu	4/16/76	RAT-U103-1	1.2278	0.00027	gm/l	P	Supernate	Braun	Pu239/240	7.12E+05					
U103	Pu	4/16/76	RAT-U103-1	1.305	0.00027	gm/l	P	Supernate	Braun	Pu239/240	7.12E+05					
BX105	Pu239/240	3/3/86	B1XDOOXX	1.29	18.9	uCi/l	L	Liquor	Braun	Pu239/240	6.99E+05					
BX105	Pu239/240	5/19/87	B1DXDXXX	1.291	1.89E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	6.99E+05					
BX104	Pu239/240	2/26/86	72XDOOXX	1.21	18.4	uCi/l	L	Liquor	Braun	Pu239/240	6.81E+05					
BX104	Pu239/240	2/14/86	71XDOOXX	1.31	17.9	uCi/l	L	Liquor	Braun	Pu239/240	6.62E+05					
BX105	Pu	3/4/86			2.51E-04	g/L	P	Supernate	Wastren	Pu239/240	6.62E+05					

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L			
C106	Pu239/240	9/1/76	6	1.162	1.74E+01	uCi/L	O	Other	RAW	Pu239/240	6.44E+05			
TX118	Pu	1/26/77	T-1205	1.31	0.000923	gm/gal	P	Supernate	Braun	Pu239/240	6.43E+05			
TX103	Pu	9/21/79	T-1465	1.24	0.000224	gm/l	L	Liquor	Braun	Pu239/240	5.91E+05			
TX103	Pu	9/21/79	T-1467	1.24	0.000221	gm/l	L	Liquor	Braun	Pu239/240	5.83E+05			
TX118	Pu	11/29/78	5622	1.076	8.25E-04	g/gal	L	yellow	RAW	Pu239/240	5.75E+05			
TX118	Pu	11/29/78	5622	1.08	0.000825	gm/gal	P	Supernate	Braun	Pu239/240	5.75E+05			
BX105	Pu239/240	3/4/86	82XDOOXX	1.29	15.4	uCi/l	L	Liquor	Braun	Pu239/240	5.70E+05			
BX105	Pu239/240	5/19/87	B2XDXXXX	1.294	1.54E+01	uCi/l	L	Drainable Liquor	RAW	Pu239/240	5.70E+05			
U102	Pu	3/1/76		1.27	2.10E-04	g/l	L	Liquid	RAW	Pu239/240	5.54E+05			
U102	Pu	3/1/76	RAT-U102-1	1.27	0.00021	gm/l	P	Supernate	Braun	Pu239/240	5.54E+05			
U102	Pu	3/1/76	RAT-U102-1	1.38	0.00021	gm/l	P	Supernate	Braun	Pu239/240	5.54E+05			
U102	Pu	3/1/76	RAT-U102-1	1.6	0.00021	gm/l	P	Supernate	Braun	Pu239/240	5.54E+05			
U102	Pu	3/1/76			2.10E-04	g/L	P	Supernate	Wastren	Pu239/240	5.54E+05			
TX118	Pu	4/23/75	T-3262	1.24	0.000789	gm/gal	P	Supernate	Braun	Pu239/240	5.50E+05			
TX103	Pu	9/21/79	T-1470	1.25	0.000202	gm/l	L	Liquor	Braun	Pu239/240	5.33E+05			
TX103	Pu	9/21/79			2.01E-04	g/L	P	Supernate	Wastren	Pu239/240	5.30E+05			
C106	Pu239/240	9/1/80	4		1.39E+01	uCi/L	O		RAW	Pu239/240	5.14E+05			
TX101	Pu	10/5/76	T-7478	1.189	7.27E-04	gm/gal	L	No Solids	RAW	Pu239/240	5.07E+05			
BX112	Pu	3/16/90			1.88E-04	g/L	P	Supernate	Wastren	Pu239/240	4.96E+05			
C103	Pu	11/11/74	T-9661	1.083	6.47E-04	g/gal	L	No Solids	RAW	Pu239/240	4.51E+05			
C103	Pu	5/20/75	T-9661	1.083	0.000647	gm/gal	P	Supernate	Braun	Pu239/240	4.51E+05			
BX104	Pu	8/15/75	T-7088	1.1285	6.43E-04	g/gal	L	No Solids	RAW	Pu239/240	4.48E+05			
T107	Pu239/240	8/1/89	RAT-T107-1	1.2	12	uCi/l	P	Supernate	Braun	Pu239/240	4.44E+05			
T107	Pu239/240	8/1/89			1.20E+01	uCi/L	P	Supernatant	RAW	Pu239/240	4.44E+05			
T107	Pu239/240	3/1/93	B08V58	1.2	1.17E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	4.33E+05			
BX111	Pu239/240	3/16/90	R-6042	1.2	1.15E+01	uCi/L	P	supernate	RAW	Pu239/240	4.26E+05			
BX112	Pu239/240	3/16/90	R-6042	1.2	11.5	uCi/l	P	Supernate	Braun	Pu239/240	4.26E+05			
T106	Pu239/240	6/18/73			5.90E-04	g/gal	L	NO SOLIDS	RAW	Pu239/240	4.11E+05			
T107	Pu239/240	3/1/93	B08V58	1.2	1.11E-02	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	4.11E+05			
T107	Pu	3/5/85			9.84E+00	uCi/l	P	12-3872	RAW	Pu239/240	3.64E+05			
T107	Pu	3/5/85	R-3872		9.84	uCi/l	P	Supernate	Braun	Pu239/240	3.64E+05			
S102	Pu	1/20/76	T-1683	1.39	5.22E-04	gm/gal	D	Suspended Solids	RAW	Pu239/240	3.64E+05			
S102	Pu	1/20/76	T-1683	1.39	0.000522	gm/gal	P	Supernate	Braun	Pu239/240	3.64E+05			
T106	Pu239	6/18/73	T-7422		0.00059	gm/gal	P	Supernate	Braun	Pu239/240	3.54E+05			
BX104	Pu	7/15/75	T-6110	1.1471	0.000505	gm/gal	L	Liquor	Braun	Pu239/240	3.52E+05			
BX104	Pu	7/15/75	T-6110	1.1471	5.05E-04	g/gal	L	No Solids	RAW	Pu239/240	3.52E+05			
BX104	Pu	2/28/74	T-2045	1.1325	0.000133	gm/l	L	Liquor	Braun	Pu239/240	3.51E+05			
BX104	Pu	2/28/74	T-2045	1.1325	1.33E-04	g/l	L	No Solids	RAW	Pu239/240	3.51E+05			
BX104	Pu	2/28/74	T-2045	1.1325	1.33E-04	g/l	L	No Solids	RAW	Pu239/240	3.51E+05			
T104	Pu239/240	8/26/92	B08TQ7	1.1	9.43E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	3.49E+05			
BX103	Pu	10/23/75			1.30E-04	g/L	P	Supernate	Wastren	Pu239/240	3.43E+05			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
BX103	Pu	10/23/75	T-9138	1.103	0.000492	gm/gal	L	Liquor	Braun	Pu239/240	3.43E+05		
BX103	Pu	10/23/75	T-9138	1.103	4.92E-04	g/gal	L	No Solids	RAW	Pu239/240	3.43E+05		
A101	Pu	8/22/80	T-2692	1.3017	0.000124	gm/l	P	Supernate	Braun	Pu239/240	3.27E+05		
BX103	Pu	4/14/75	T-3635	1.1303	4.62E-04	g/gal	L	No Solids	RAW	Pu239/240	3.22E+05		
BX103	Pu	4/14/75	T-3635	1.1383	0.000462	gm/gal	P	Supernate	Braun	Pu239/240	3.22E+05		
T104	Pu239/240	8/26/92	B08TQ7	1.1	8.44E-03	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	3.12E+05		
BX104	Pu	11/5/75	T-9511	1.087	0.000416	gm/gal	L	Liquor	Braun	Pu239/240	2.90E+05		
BX104	Pu	11/5/75	T-9511	1.087	4.16E-04	gm/gal	L	No Solids	RAW	Pu239/240	2.90E+05		
C104	Pu239/240	4/15/86	D1XDOOXX	1.18	7.73	uCi/l	L	Liquor	Braun	Pu239/240	2.86E+05		
C104	Pu239/240	5/19/87	D1XDXXXX	1.18	7.73E+00	uCi/l	L	Drainable Liquor	RAW	Pu239/240	2.86E+05		
TX118	Pu	12/6/74	T-8775	1.616	4.05E-04	g/gal	L		RAW	Pu239/240	2.82E+05		
TX118	Pu	12/6/74	T-8775	1.616	0.000405	gm/gal	P	Supernate	Braun	Pu239/240	2.82E+05		
C107	Pu239/240	11/20/90			7.60E+00	uCi/L	P	supernate	RAW	Pu239/240	2.81E+05		
T108	Pu	5/13/74	T-3391	1.1823	1.06E-04	g/l	L	No solids	RAW	Pu239/240	2.80E+05		
T108	Pu	5/13/74	T-3391	1.1823	0.000106	gm/l	P	Supernate	Braun	Pu239/240	2.80E+05		
T108	Pu	5/12/74			1.06E-04	g/L	P	Supernate	Wastren	Pu239/240	2.80E+05		
BX106	Pu	4/21/75	T-3855	1.3739	4.00E-04	g/gal	L		RAW	Pu239/240	2.79E+05		
BX106	Pu	4/21/75	T-3855	1.3739	0.0004	gm/gal	P	Supernate	Braun	Pu239/240	2.79E+05		
TX105	Pu	3/17/76	T-6311	1.403	3.94E-04	gm/gal	L	No Solids	RAW	Pu239/240	2.75E+05		
TX105	Pu	8/19/76	T-6311	1.403	0.000394	gm/gal	P	Supernate	Braun	Pu239/240	2.75E+05		
A101	Pu	8/22/80	T-2691	1.2814	0.000101	gm/l	P	Supernate	Braun	Pu239/240	2.66E+05		
A103	Pu	3/19/80	T-8951	1.24	0.0000951	gm/l	P	Supernate	Braun	Pu239/240	2.51E+05		
A103	Pu	3/19/80	T-8951	1.24	9.51E-05	g/l	U	Unknown	RAW	Pu239/240	2.51E+05		
A103	Pu	4/7/80	T-9536	1.417	0.0000935	gm/l	P	Supernate	Braun	Pu239/240	2.47E+05		
A103	Pu	4/7/80	T-9536	1.417	9.35E-05	g/l	U	Unknown	RAW	Pu239/240	2.47E+05		
A102	Pu	12/23/80		1.452	9.00E-05	g/L	F	Filtrate	RAW	Pu239/240	2.37E+05		
A102	Pu	12/23/80	RAT-A102-2	1.452	0.00009	gm/l	F	Filtrate	Braun	Pu239/240	2.37E+05		
C102	Pu239/240	6/3/91	R-8089	1.15	5.8	uCi/l	P	Supernate	Braun	Pu239/240	2.15E+05		
C102	Pu239/240	6/3/91	R8089	1.15	5.80E+00	uCi/L	P	supernate	RAW	Pu239/240	2.15E+05		
S102	Pu	9/3/75	T-7703	1.3308	3.03E-04	g/gal	L	No Solids	RAW	Pu239/240	2.11E+05		
S102	Pu	9/3/75	T-7703	1.3308	0.000303	gm/gal	P	Supernate	Braun	Pu239/240	2.11E+05		
S102	Pu	7/14/75	T-6042	1.34	3.02E-04	g/gal	L		RAW	Pu239/240	2.10E+05		
S102	Pu	7/14/75	T-6042	1.34	0.000302	gm/gal	P	Supernate	Braun	Pu239/240	2.10E+05		
A102	Pu239/240	3/6/86	91XDOOXX	1.52	5.65	uCi/l	L	Liquor	Braun	Pu239/240	2.09E+05		
A102	Pu239/240	5/19/87	91XDXXXX	1.52	5.65E+00	uCi/l	L	Drainable Liquor	RAW	Pu239/240	2.09E+05		
TX118	Pu	10/16/81	RAT-TX118-5		0.000079	gm/l	P	Supernate	Braun	Pu239/240	2.08E+05		
BX105	Pu	2/28/74	T-2046	1.0956	0.0000772	gm/l	L	Liquor	Braun	Pu239/240	2.04E+05		
BX105	Pu	2/28/74	T-2046	1.0956	7.72E-05	g/l	L	No Solids	RAW	Pu239/240	2.04E+05		
TX118	Pu	11/25/74	T-8995	1.3398	2.85E-04	gm/gal	L	No Solids	RAW	Pu239/240	1.99E+05		
TX118	Pu	11/25/74	T-8995	1.3398	0.000285	gm/gal	P	Supernate	Braun	Pu239/240	1.99E+05		
A101	Pu	10/10/83	7879	1.3597	0.0000722	gm/l	P	Supernate	Braun	Pu239/240	1.90E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information				Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L		
A101	Pu	10/10/83	7879	1.3617	0.0000722	gm/l	P	Supernate	Braun	Pu239/240	1.90E+05		
A101	Pu	1/3/84	7879		7.22E-05	g/L	F	Filtrate	RAW	Pu239/240	1.90E+05		
A102	Pu239/240	3/8/86	92XDOOXX	1.51	5.13	uCi/l	L	Liquor	Braun	Pu239/240	1.90E+05		
A102	Pu239/40	5/19/87	92XDXXXX	1.51	5.13	uCi/l	L	Drainable Liquor	RAW	Pu239/240	1.90E+05		
BX104	Pu	10/29/74	T-9245	1.121	2.68E-04	gm/gal	L	Liquor	Braun	Pu239/240	1.87E+05		
BX104	Pu	10/29/74	T-9245	1.121	2.68E-04	gm/gal	L	No Solids	RAW	Pu239/240	1.87E+05		
BX107	Pu	11/20/74	T-5921	1.238	0.000267	gm/gal	L	No Solids	RAW	Pu239/240	1.86E+05		
BX107	Pu	11/20/74	T-5921	1.238	0.000267	gm/gal	P	Supernate	Braun	Pu239/240	1.86E+05		
BX104	Pu	12/6/74	T-365	1.1286	2.66E-04	gm/gal	L	Liquor	Braun	Pu239/240	1.85E+05		
BX104	Pu	12/6/74	T-365	1.1286	2.66E-04	g/gal	L	No Solids	RAW	Pu239/240	1.85E+05		
BX107	Pu	3/16/90			6.92E-05	g/L	P	Supernate	Wastren	Pu239/240	1.83E+05		
TX108	Pu	2/2/76	T-1984	1.386	2.61E-04	g/gal	L	No Solids	RAW	Pu239/240	1.82E+05		
TX108	Pu	2/2/76	T-1989	1.386	0.000261	gm/gal	P	Supernate	Braun	Pu239/240	1.82E+05		
SX106	Pu	2/28/77	RAT-SX106-2	1.45	0.0000686	gm/l	P	Supernate	Braun	Pu239/240	1.81E+05		
SX106	Pu	2/28/77	RAT-SX106-2	1.58	0.0000686	gm/l	P	Supernate	Braun	Pu239/240	1.81E+05		
SX106	Pu	2/28/77	RAT-SX106-2	1.6	6.86E-05	gm/l	P	Supernate	Braun	Pu239/240	1.81E+05		
TX110	Pu	3/17/75	T-2784	1.37	0.000256	g/gal	L		RAW	Pu239/240	1.78E+05		
TX110	Pu	3/17/75	T-2704	1.37	2.56E-04	gm/gal	P	Supernate	Braun	Pu239/240	1.78E+05		
TX118	Pu	3/17/75	T-2784	1.37	0.000256	g/gal	L		RAW	Pu239/240	1.78E+05		
TX118	Pu	3/17/75	T-2784	1.37	2.56E-04	gm/gal	P	Supernate	Braun	Pu239/240	1.78E+05		
SX106	Pu	2/28/77		1.45	6.68E-05	g/l	P	Supernatant	RAW	Pu239/240	1.76E+05		
S102	Pu	10/7/75	T-8634	1.19	0.000242	g/gal	L		RAW	Pu239/240	1.69E+05		
S102	Pu	10/7/75	T-8634	1.19	0.000242	gm/gal	P	Supernate	Braun	Pu239/240	1.69E+05		
A102	Pu239/240	3/14/89	R-4656	1.57	4.53E+00	uCi/l	P	Supernate	Braun	Pu239/240	1.68E+05		
A102	Pu239/240	3/15/89		1.57	4.53	uCi/L	P	Supernatant	RAW	Pu239/240	1.68E+05		
BX107	Pu239/240	3/16/90	R-6038	1.22	4.24E+00	uCi/l	P	Supernate	Braun	Pu239/240	1.57E+05		
BX107	Pu239/240	3/16/90	R6038	1.22	4.24E+00	uCi/L	P	supernate liquid	RAW	Pu239/240	1.57E+05		
B103	Pu	10/20/75	T-7809	1.1253	2.23E-04	g/gal	L	No Solids	RAW	Pu239/240	1.55E+05		
BX109	Pu239/240	5/20/75		1.311	4.14	uCi/L	L	solutions	RAW	Pu239/240	1.53E+05		
BX105	Pu	1/14/75	T-1437	1.2034	2.07E-04	gm/gal	L	Liquor	Braun	Pu239/240	1.44E+05		
BX105	Pu	1/14/75	T-1437	1.2034	0.000207	g/gal	L	No Solids	RAW	Pu239/240	1.44E+05		
TX118	Pu	2/24/75	T-2264		2.00E-04	gm/gal	P	Supernate	Braun	Pu239/240	1.39E+05		
T109	Pu	3/13/74	T-2289	1.1982	0.000047	g/l	L	No solids	RAW	Pu239/240	1.24E+05		
T109	Pu	3/13/74	T-2289	1.1982	0.000047	gm/l	P	Supernate	Braun	Pu239/240	1.24E+05		
T109	Pu	3/13/74			4.70E-05	g/L	P	Supernate	Wastren	Pu239/240	1.24E+05		
AX101	Pu	8/19/80	T-3102	1.445	4.37E-05	gm/l	P	Supernate	Braun	Pu239/240	1.15E+05		
TX118	Pu	10/16/81			4.15E-05	g/l	L		RAW	Pu239/240	1.09E+05		
A106	Pu239/240	5/19/87	A1XDXXXX	1.35	2.92E+00	uCi/l	L	Drainable Liquor	RAW	Pu239/240	1.08E+05		
T101	Pu	3/3/75	T-2381	1.3049	0.000154	g/gal	L	No Solids	RAW	Pu239/240	1.07E+05		
T101	Pu	3/3/75	T-2381	1.3049	1.54E-04	gm/gal	P	Supernate	Braun	Pu239/240	1.07E+05		
S102	Pu	9/8/75	T-7748	1.2748	0.000151	g/gal	L		RAW	Pu239/240	1.05E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information		ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
A101	Pu	11/11/80	RAT-A101-5B	1.45	3.96E-05	gm/l	F	Filtrate	Braun	Pu239/240	1.04E+05				
A101	Pu	11/11/80		1.45	3.96E-05	g/L	F		RAW	Pu239/240	1.04E+05				
AX103	Pu	4/27/80	T-93	1.376	0.0000366	g/l	L	No solids	RAW	Pu239/240	9.66E+04				
AX103	Pu	4/27/80	T-93	1.376	3.66E-05	gm/l	P	Supernate	Braun	Pu239/240	9.66E+04				
AX103	Pu	4/27/80			3.66E-05	g/L	P	Supernate	Wastren	Pu239/240	9.66E+04				
A102	Pu	7/17/80	T-1243	1.4554	0.0000364	g/L	O	~5% Solids	RAW	Pu239/240	9.60E+04				
A102	Pu	7/17/80	T-1243	1.1554	0.0000364	gm/l	P	Supernate	Braun	Pu239/240	9.60E+04				
A102	Pu	7/17/80	T-1245	1.1554	3.60E-05	gm/l	P	Supernate	Braun	Pu239/240	9.50E+04				
B102	Pu	10/24/75	T-4887	1.138	0.000131	g/gal	L		RAW	Pu239/240	9.13E+04				
B102	Pu	10/24/75	T-4887	1.1383	1.31E-04	gm/gal	P	Supernate	Braun	Pu239/240	9.13E+04				
B102	PU	10/24/75			3.46E-05	g/L	P	Supernate	Wastren	Pu239/240	9.13E+04				
A102	Pu	12/23/80		1.44	0.0000338	g/L	F	Filtrate	RAW	Pu239/240	8.92E+04				
A102	Pu	12/23/80	RAT-A102-1	1.44	0.0000338	gm/l	F	Filtrate	Braun	Pu239/240	8.92E+04				
AX101	Pu	8/19/80	T-3103	1.512	3.26E-05	gm/l	P	Supernate	Braun	Pu239/240	8.60E+04				
AX101	Pu	8/19/80			3.26E-05	g/L	P	Supernate	Wastren	Pu239/240	8.60E+04				
TX118	Pu	11/25/74	T-8574	1.4404	0.000122	gm/gal	L		RAW	Pu239/240	8.50E+04				
TX118	Pu	11/25/74	T-8574	1.4404	1.22E-04	gm/gal	P	Supernate	Braun	Pu239/240	8.50E+04				
TY104	Pu	8/12/85			3.12E-05	g/L	P	Supernate	Wastren	Pu239/240	8.23E+04				
S102	Pu	11/3/75	T-8394	1.326	0.000117	g/gal	L	No Solids	RAW	Pu239/240	8.15E+04				
S102	Pu	11/3/75	T-9394	1.326	1.17E-04	gm/gal	P	Supernate	Braun	Pu239/240	8.15E+04				
S102	Pu	2/12/76	T-9394	1.326	1.17E-04	g/gal	L	No Solids	RAW	Pu239/240	8.15E+04				
A102	Pu	3/13/80	7957	1.064	0.0000304	g/l	L		RAW	Pu239/240	8.02E+04				
A102	Pu	3/13/80	7957	1.064	0.0000304	gm/l	P	Supernate	Braun	Pu239/240	8.02E+04				
A102	Pu	7/17/80	T-1244	1.1572	0.0000294	gm/l	P	Supernate	Braun	Pu239/240	7.76E+04				
TX118	Pu	10/16/81	RAT-TX118-4		0.0000288	gm/l	P	Supernate	Braun	Pu239/240	7.60E+04				
TX118	Pu	10/16/81			2.88E-05	g/L	P	Supernate	Wastren	Pu239/240	7.60E+04				
U103	Pu	12/10/77	3665	1.547	1.09E-04	gm/gal	P	Supernate	Braun	Pu239/240	7.60E+04				
U103	Pu	12/10/77	3665	1.547	1.09E-04	g/gal	U		RAW	Pu239/240	7.60E+04				
A106	Pu	10/27/79	T-4818	1.194	0.0000287	g/l	L	No Solids	RAW	Pu239/240	7.57E+04				
A106	Pu	10/27/79	T-4818	1.194	2.87E-05	gm/l	P	Supernate	Braun	Pu239/240	7.57E+04				
C102	Pu	9/26/75	T-8306		0.000106	gm/gal	L	No Solids	RAW	Pu239/240	7.39E+04				
C102	Pu	9/26/75	T-8306	1.136	1.06E-04	gm/gal	P	Supernate	Braun	Pu239/240	7.39E+04				
A102	Pu	8/4/80	T-2405	1.199	0.0000276	g/l	O	Trace of Brown Solids	RAW	Pu239/240	7.28E+04				
A102	Pu	8/4/80	T-2405	1.199	2.76E-05	gm/l	P	Supernate	Braun	Pu239/240	7.28E+04				
TX107	Pu	4/28/75	T-3975	1.3804	0.000103	g/Gal	L	No Solids	RAW	Pu239/240	7.18E+04				
TX107	Pu	4/28/75	T-3975	1.3804	1.03E-04	gm/gal	P	Supernate	Braun	Pu239/240	7.18E+04				
A102	Pu	8/4/80	T-2404	1.18	0.0000272	g/l	L	Clear	RAW	Pu239/240	7.18E+04				
A102	Pu	8/4/80	T-2404	1.18	0.0000272	gm/l	P	Supernate	Braun	Pu239/240	7.18E+04				
TY104	Pu239/240	8/12/85	232DOOOO	1.21	1.91E+00	uCi/l	L	Liquor	Braun	Pu239/240	7.07E+04				
TY104	Pu239/240	6/30/87	211DOOXD	1.21	1.91E+00	uCi/l	L	Drainable Liquor	RAW	Pu239/240	7.07E+04				
A102	Pu	12/8/79	T-6176	1.214	0.0000265	g/l	O	<1% Brown solids	RAW	Pu239/240	6.99E+04				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information							Radionuclide Information						
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
A102	Pu	12/8/79	T-6176	1.214	0.0000265	gm/l	P	Supernate	Braun	Pu239/240	6.99E+04		
T112	Pu239/240	10/27/87	RAT-T112-1		1.85E+00	uCi/l	P	Supernate	Braun	Pu239/240	6.85E+04		
T112	Pu239/240	10/27/87			1.85E+00	uCi/L	P	Supernatant	RAW	Pu239/240	6.85E+04		
A102	Pu	3/13/80	7956	1.065	0.0000253	g/l	L		RAW	Pu239/240	6.67E+04		
T102	Pu	7/20/73	RAT-T102-1		2.52E-05	gm/l	U	Unknown	Braun	Pu239/240	6.65E+04		
T102	Pu	7/20/73	T-7892		0.0000252	g/l	U		RAW	Pu239/240	6.65E+04		
T102	Pu	7/24/73	T-7892		2.52E-05	gm/l	U	Unknown	Braun	Pu239/240	6.65E+04		
TX118	Pu	6/25/74	T-5327	1.3995	0.0000946	g/gal	L	No Solids	RAW	Pu239/240	6.59E+04		
TX118	Pu	6/25/74	T-5327	1.3995	9.46E-05	gm/gal	P	Supernate	Braun	Pu239/240	6.59E+04		
C110	Pu239/240	4/23/92			1.77E-03	uCi/mL	L		RAW	Pu239/240	6.55E+04		
C110	Pu239/240	4/23/92			1.77E-03	uCi/mL	L		RAW	Pu239/240	6.55E+04		
C110	Pu239/240	4/23/92	B08VM5	1.0033333	1.77E-03	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	6.55E+04		
C110	Pu239/240	4/23/92	B08VP9	1.1	1.77E-03	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	6.55E+04		
C110	Pu239/240	4/23/92	B08VH6	1.1833333	1.77E-03	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	6.55E+04		
C110	Pu239/240	4/23/92			1.75E-03	uCi/mL	L		RAW	Pu239/240	6.48E+04		
C110	Pu239/240	4/23/92	B08VM5	1.0033333	1.75E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	6.48E+04		
C110	Pu239/240	4/23/92	B08VP9	1.1	1.75E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	6.48E+04		
C110	Pu239/240	4/23/92	B08VH6	1.1833333	0.00175	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	6.48E+04		
S107	Pu239	11/17/73	476	1.1592	0.000107	gm/gal	P	Supernate	Braun	Pu239/240	6.42E+04		
U103	Pu	12/10/77	3432	1.454	8.82E-05	gm/gal	P	Supernate	Braun	Pu239/240	6.15E+04		
U103	Pu	12/10/77	3432	1.454	0.0000882	g/gal	U		RAW	Pu239/240	6.15E+04		
BX105	Pu	10/16/75	T-8924	1.176	8.33E-05	gm/gal	L	Liquor	Braun	Pu239/240	5.81E+04		
BX105	Pu	10/16/75	T-8924	1.176	8.33E-05	g/gal	L	No Solids	RAW	Pu239/240	5.81E+04		
AX103	Pu	4/27/80	T-92	1.274	0.0000218	g/l	L	No Solids	RAW	Pu239/240	5.75E+04		
AX103	Pu	4/27/80	T-92	1.274	2.18E-05	gm/l	P	Supernate	Braun	Pu239/240	5.75E+04		
TX118	Pu	2/18/75	T-2123	1.4637	0.00008	g/gal	L	No Solids	RAW	Pu239/240	5.58E+04		
TX118	Pu	2/18/75	T-2123	1.4637	0.00008	gm/gal	P	Supernate	Braun	Pu239/240	5.58E+04		
TY104	Pu239/240	8/6/85	241DOOOO	1.18	1.49E+00	uCi/l	L	Liquor	Braun	Pu239/240	5.51E+04		
TY104	Pu239/240	7/1/87	241DXXXX	1.18	1.49	uCi/l	L	Drainable Liquor	RAW	Pu239/240	5.51E+04		
TY104	Pu239/240	8/6/85	211DOOOO	1.16	1.45E+00	uCi/l	L	Liquor	Braun	Pu239/240	5.37E+04		
TY104	Pu239/240	6/30/87	211DOOXD	1.16	1.45	uCi/l	L	Drainable Liquor	RAW	Pu239/240	5.37E+04		
B103	Pu	5/9/75	T-4298	1.117	7.02E-05	gm/gal	P	Supernate	Braun	Pu239/240	4.89E+04		
B103	Pu	10/24/75	T-4298		0.0000702	g/gal	L	No Solids	RAW	Pu239/240	4.89E+04		
B103	Pu	5/9/75			1.85E-05	g/L	P	Supernate	Wastren	Pu239/240	4.88E+04		
S107	Pu239	11/6/73	178	1.14	8.10E-05	gm/gal	P	Supernate	Braun	Pu239/240	4.86E+04		
TX118	Pu	11/20/74	T-8378	1.4639	0.0000693	gm/gal	L		RAW	Pu239/240	4.83E+04		
TX118	Pu	11/20/74	T-8378	1.4639	0.0000693	gm/gal	P	Supernate	Braun	Pu239/240	4.83E+04		
TX106	Pu	8/19/76	T-6312	1.437	1.73E-05	gm/l	L	No Solids	RAW	Pu239/240	4.56E+04		
S102	Pu	11/16/73	T-459	1.2927	0.0000163	g/L	L		RAW	Pu239/240	4.30E+04		
S102	Pu	11/16/73	T-459	1.2927	1.63E-05	gm/l	P	Supernate	Braun	Pu239/240	4.30E+04		
BX109	Pu	3/16/90			1.59E-05	g/L	P	Supernate	Wastren	Pu239/240	4.19E+04		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Bq/L	Decayed	ID	
TX109	Pu	1/7/81			1.45E-05	g/l	U		RAW	Pu239/240	3.83E+04					
S102	Pu	5/13/74	T-3601	1.2839	0.0000143	gm/l	P	Supernate	Braun	Pu239/240	3.77E+04					
S102	Pu239	11/16/73	RAT-S102-4	1.29	0.000062	gm/gal	P	Supernate	Braun	Pu239/240	3.72E+04					
S102	Pu239	11/16/73	T-459	1.2927	6.20E-05	gm/gal	P	Supernate	Braun	Pu239/240	3.72E+04					
B106	Pu	10/6/75	T-8577	1.227	0.000053	g/gal	L	No Solids	RAW	Pu239/240	3.69E+04					
B106	Pu	10/6/75	T-8577	1.227	5.30E-05	gm/gal	P	Supernate	Braun	Pu239/240	3.69E+04					
B106	Pu	10/6/75			1.40E-05	g/L	P	Supernate	Wastren	Pu239/240	3.69E+04					
bx109	Pu239/240	3/16/90	R-6039	1.34	0.995	uCi/L	P	supernate	RAW	Pu239/240	3.68E+04					
BX109	Pu239/240	3/16/90	R-6039	1.34	9.72E-01	uCi/l	P	Supernate	Braun	Pu239/240	3.60E+04					
A101	Pu	11/10/80		1.47	0.0000134	g/L	F	Filtrate	RAW	Pu239/240	3.54E+04					
A101	Pu	11/10/80	RAT-A101-4B	1.47	1.34E-05	gm/l	F	Filtrate	Braun	Pu239/240	3.54E+04					
S102	Pu	2/24/75	T-2278	1.1914	0.0000506	g/gal	L	No Solids	RAW	Pu239/240	3.53E+04					
S102	Pu	2/24/75	T-2278	1.1914	5.06E-05	gm/gal	P	Supernate	Braun	Pu239/240	3.53E+04					
S102	Pu	4/23/75	T-2278	1.1914	5.06E-05	g/gal	L	No Solids	RAW	Pu239/240	3.53E+04					
A102	Pu	12/2/80			1.32E-05	g/l	U	Bottom	RAW	Pu239/240	3.48E+04					
A101	Pu239/240	10/3/79	T-3971	1.052	1.274E-05	g/L	O	Other	RAW	Pu239/240	3.36E+04					
A101	Pu239/240	10/3/79	T-3971	1.052	1.27E-05	gm/l	P	Supernate	Braun	Pu239/240	3.35E+04					
TX118	Pu	12/31/74	T-1057	1.618	0.0000477	gm/gal	L		RAW	Pu239/240	3.32E+04					
TX118	Pu	12/31/74	T-1057	1.618	0.0000477	gm/gal	P	Supernate	Braun	Pu239/240	3.32E+04					
TX110	Pu239/240	8/4/79	RAT-TX110-1	1.419	1.25E-05	gm/l	P	Supernate	Braun	Pu239/240	3.30E+04					
C112	Pu239/240	3/1/92	B08DT5	1.1	8.06E-04	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.28E+04					
C112	Pu239/240	3/1/92	B08DT5	1.1	0.000793	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	3.23E+04					
T103	Pu	7/24/73	T-7869		1.22E-05	gm/l	U	Unknown	Braun	Pu239/240	3.22E+04					
T103	Pu	7/24/73	T-7869		1.22E-05	g/l	U		RAW	Pu239/240	3.22E+04					
SX104	Pu	5/14/88			1.14E-05	g/L	L	Drainable Liquid	Wastren	Pu239/240	3.01E+04					
TX118	Pu	12/8/74	T-462	1.5732	0.0000412	gm/gal	L		RAW	Pu239/240	2.87E+04					
TX118	Pu	12/8/74	T-462	1.5732	0.0000412	gm/gal	P	Supernate	Braun	Pu239/240	2.87E+04					
A101	Pu	11/10/80	RAT-A101-9B	1.43	1.08E-05	gm/l	F	Filtrate	Braun	Pu239/240	2.85E+04					
A101	Pu	11/10/80		1.43	1.08E-05	g/L	F		RAW	Pu239/240	2.85E+04					
T103	Pu	3/13/74	T-2288	1.2482	0.0000107	g/l	L	No Solids	RAW	Pu239/240	2.82E+04					
T103	Pu	3/13/74	T-2288	1.2482	1.07E-05	gm/l	P	Supernate	Braun	Pu239/240	2.82E+04					
T103	Pu	3/13/74			1.07E-05	g/L	P	Supernate	Wastren	Pu239/240	2.82E+04					
C103	Pu	9/20/74	T-7563	1.0894	0.0000401	g/gal	L	No Solids	RAW	Pu239/240	2.79E+04					
C103	Pu	9/20/74	T-7563	1.0894	4.01E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.79E+04					
BX106	Pu	4/12/74	T-3060	1.2098	9.86E-06	g/l	L	No Solids	RAW	Pu239/240	2.60E+04					
BX106	Pu	4/12/74	T-3060	1.2098	9.86E-06	gm/l	P	Supernate	Braun	Pu239/240	2.60E+04					
SX104	Pu	5/14/88		1.5	0.7	uCi/l	L	IN Total Slurry	RAW	Pu239/240	2.59E+04					
SX104	Pu	5/14/88	RAT-SX104-3	1.5	0.7	uCi/l	P	Supernate	Braun	Pu239/240	2.59E+04					
A101	Pu239/240	10/2/79	T-3970	0.9952	9.68E-06	gm/l	P	Supernate	Braun	Pu239/240	2.55E+04					
A101	Pu239/240	10/2/79	T-3970	0.9952	9.68E-06	g/L	O	Other	RAW	Pu239/240	2.55E+04					
S109	Pu	9/16/74	T-4544	1.7607	9.56E-06	g/l	L		RAW	Pu239/240	2.52E+04					

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	ID
S109	Pu	9/16/74	T-4544	1.7607	9.56E-06	gm/l	P	Supernate	Braun	Pu239/240	2.52E+04		
BX106	Pu	6/7/74	T-3766	1.194	9.39E-06	g/l	L	No Solids	RAW	Pu239/240	2.48E+04		
BX106	Pu	6/7/74	T-3766	1.194	9.39E-06	gm/l	P	Supernate	Braun	Pu239/240	2.48E+04		
TX118	Pu	2/25/75	T-9434	1.5346	0.0000353	g/gal	L		RAW	Pu239/240	2.46E+04		
TX118	Pu	2/25/75	T-9434	1.5346	0.0000353	gm/gal	P	Supernate	Braun	Pu239/240	2.46E+04		
S111	Pu239	8/25/78	RAT-S111-3	1.5	1.08E-05	gm/l	P	Supernate	Braun	Pu239/240	2.45E+04		
TX118	Pu	10/21/74	T-7960	1.5554	0.0000347	g/gal	L		RAW	Pu239/240	2.42E+04		
TX118	Pu	10/21/74	T-7960	1.5554	3.47E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.42E+04		
S111	Pu	8/25/78		1.46	8.95E-06	g/l	P	Supernatant	RAW	Pu239/240	2.36E+04		
S111	Pu	8/25/78	1009-C	1.44	8.95E-06	gm/l	P	Supernate	Braun	Pu239/240	2.36E+04		
S111	Pu	8/25/78	1009-C	1.46	8.95E-06	gm/l	P	Supernate	Braun	Pu239/240	2.36E+04		
TX118	Pu	10/14/74	T-7582	1.4864	0.0000336	g/gal	L	No Solids	RAW	Pu239/240	2.34E+04		
TX118	Pu	10/14/74	T-7582	1.4864	3.36E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.34E+04		
TX118	Pu	6/28/74	T-5551	1.3895	0.0000333	gm/gal	L		RAW	Pu239/240	2.32E+04		
TX118	Pu	6/28/74	T-5551	1.3895	3.33E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.32E+04		
U107	Pu	10/14/74	T-8938	1.016	0.0000324	gm/gal	L	No Solids	RAW	Pu239/240	2.26E+04		
U107	Pu	10/14/74	T-8938	1.016	3.24E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.26E+04		
C112	Pu	11/20/77	T-6185	1.2054	3.20E-05	gm/gal	L	No Solids	RAW	Pu239/240	2.23E+04		
S102	Pu	3/28/80	T-8105	1.408	8.23E-06	g/l	L	Liquor	RAW	Pu239/240	2.17E+04		
S102	Pu	3/28/80	T-8101	1.4018	8.23E-06	gm/l	L	Liquor	Braun	Pu239/240	2.17E+04		
S102	Pu	3/28/80			8.23E-06	g/L	P	Supernate	Wastren	Pu239/240	2.17E+04		
TX108	Pu	1/21/74	T-656	1.403	8.11E-06	gm/l	P	Supernate	Braun	Pu239/240	2.14E+04		
C103	Pu	9/16/74	T-6184	1.192	0.0000302	g/gal	L	No Solids	RAW	Pu239/240	2.10E+04		
C103	Pu	9/16/74	T-6184	1.192	3.02E-05	gm/gal	P	Supernate	Braun	Pu239/240	2.10E+04		
S102	Pu	9/16/74	T-6006	1.256	0.0000293	g/gal	L		RAW	Pu239/240	2.04E+04		
S102	Pu	9/16/74	T-6006	1.256	0.0000293	gm/gal	P	Supernate	Braun	Pu239/240	2.04E+04		
TX108	Pu	1/2/75	T-1139	1.4632	2.69E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.87E+04		
TX108	Pu	1/22/75	T-1139	1.4632	2.69E-05	gm/gal	P	Supernate	RAW	Pu239/240	1.87E+04		
S102	Pu	6/17/74	T-3770	1.315	6.92E-06	g/L	L		RAW	Pu239/240	1.83E+04		
S102	Pu	6/17/74	T-3770	1.315	6.92E-06	gm/l	P	Supernate	Braun	Pu239/240	1.83E+04		
BX103	Pu	11/25/74	T-8630	1.063	0.0000253	g/gal	L	No Solids	RAW	Pu239/240	1.76E+04		
BX103	Pu	11/25/74	T-8630	1.063	0.0000253	gm/gal	P	Supernate	Braun	Pu239/240	1.76E+04		
T101	Pu239/240	6/2/93	R-2847		2.53E-05	gm/gal	P	Supernatant	RAW	Pu239/240	1.67E+04		
S102	Pu	1/2/75	T-1091	1.58	4.75E-04	uCi/ml	P	No Solids	RAW	Pu239/240	1.67E+04		
S102	Pu	1/2/75	T-1091	1.58	0.000024	g/gal	P	Supernate	Braun	Pu239/240	1.67E+04		
TX118	Pu	12/17/74	T-231	1.5234	0.0000218	gm/gal	L		RAW	Pu239/240	1.52E+04		
TX118	Pu	12/17/74	T-231	1.5234	0.0000218	gm/gal	P	Supernate	Braun	Pu239/240	1.52E+04		
TX118	Pu	1/20/75	T-1542		1.99E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.39E+04		
T101	Pu	3/25/74	T-2286	1.3058	5.05E-06	g/L	L	No Solids	RAW	Pu239/240	1.33E+04		
S106	Pu	12/16/74	T-8035	1.5414	1.90E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.32E+04		
S107	Pu	12/17/74	T-8078	1.201	0.0000178	g/gal	L	No Solids	RAW	Pu239/240	1.24E+04		

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S107	Pu	12/17/74	T-8078	1.201	0.0000178	gm/gal	P	Supernate	Braun	Pu239/240	1.24E+04		
SX101	Pu	10/29/80	RAT-SX101-2	1.028	4.63E-06	gm/l	P	Supernate	Braun	Pu239/240	1.22E+04		
SX101	Pu	10/29/80		1.028	4.63E-06	g/l	U	Deep	RAW	Pu239/240	1.22E+04		
BX105	Pu	2/11/76	T-2325	1.369	1.74E-05	g/gal	L	No Solids	RAW	Pu239/240	1.21E+04		
TX108	Pu	9/25/75	T-8261	1.358	1.74E-05	g/gal	L	No Solids	RAW	Pu239/240	1.21E+04		
TX108	Pu	9/25/75	T-8261	1.358	0.0000174	gm/gal	P	Supernate	Braun	Pu239/240	1.21E+04		
TX106	Pu	8/19/76	T-6312	1.437	1.73E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.21E+04		
SX105	Pu	11/19/74	T-7327	1.3444	1.69E-05	gm/gal	L	No Solids	RAW	Pu239/240	1.18E+04		
SX105	Pu	11/19/74	T-7327	1.3444	1.69E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.18E+04		
TX118	Pu	2/25/75	T-9577	1.346	0.0000169	g/gal	L		RAW	Pu239/240	1.18E+04		
TX118	Pu	2/25/75	T-9577	1.346	1.69E-05	gm/gal	P	Supernate	Braun	Pu239/240	1.18E+04		
T101	Pu239/240	6/2/93	R-2926		3.16E-04	uCi/ml	P	Supernatant	RAW	Pu239/240	1.17E+04		
S106	Pu	1/21/74	T-738	1.49125	4.28E-06	g/l	L		RAW	Pu239/240	1.13E+04		
A106	Pu	3/13/86			4.26E-06	g/L	L	Drainable Liquid	Wastren	Pu239/240	1.12E+04		
TX118	Pu	11/5/74	T-9274	1.426	0.000016	gm/gal	L		RAW	Pu239/240	1.12E+04		
TX118	Pu	11/5/74	T-9274	1.426	0.000016	gm/gal	P	Supernate	Braun	Pu239/240	1.12E+04		
A106	Pu239/240	3/11/86	A1XDOOXX	1.35	2.92E-01	uCi/l	L	Liquor	Braun	Pu239/240	1.08E+04		
T102	Pu	3/13/74	T-2287	1.2382	3.99E-06	g/l	L	No Solids	RAW	Pu239/240	1.05E+04		
T102	Pu	3/13/74	T-2287	1.2382	3.99E-06	gm/l	P	Supernate	Braun	Pu239/240	1.05E+04		
T102	Pu	3/13/74			3.99E-06	g/L	P	Supernate	Wastren	Pu239/240	1.05E+04		
T101	Pu239/240	6/2/93	R-2846		0.000274	uCi/ml	P	Supernatant	RAW	Pu239/240	1.01E+04		
TX118	Pu	8/5/74	7068B		3.73E-06	gm/l	P	Supernate	Braun	Pu239/240	9.84E+03		
A106	Pu239/240	3/13/86	A2XDOOXX	1.36	2.61E-01	uCi/l	L	Liquor	Braun	Pu239/240	9.66E+03		
A106	Pu239/240	5/19/87	A2XDXXXX	1.36	0.261	uCi/l	L	Drainable Liquor	RAW	Pu239/240	9.66E+03		
T101	Pu239/240	8/1/89	RAT-T101-1	1.2	2.54E-01	uCi/l	P	Supernate	Braun	Pu239/240	9.40E+03		
T101	Pu239/240	8/1/89		1.20	2.54E-01	uCi/L	P	Supernatant	RAW	Pu239/240	9.40E+03		
BX106	Pu239/240	3/16/90	R6037	1.33	2.51E-01	uCi/L	P	Supernate	RAW	Pu239/240	9.29E+03		
TX103	Pu	3/1/76	T-2955	1.4	0.0000132	g/gal	L		RAW	Pu239/240	9.20E+03		
TX103	Pu	3/1/76	T-2955	1.4	0.0000132	gm/gal	P	Supernate	Braun	Pu239/240	9.20E+03		
T110	Pu	1/20/75			3.28E-06	g/L	P	Supernate	Wastren	Pu239/240	8.65E+03		
T110	Pu	1/20/75	T-5313	1.084	0.0000124	g/gal	L		RAW	Pu239/240	8.64E+03		
T110	Pu	1/20/75	T-5313	1.084	1.24E-05	gm/gal	P	Supernate	Braun	Pu239/240	8.64E+03		
U110	Pu	10/21/75	T-5956	1.01	3.25E-09	g/ml	P	Supernate	RAW	Pu239/240	8.57E+03		
C112	Pu	6/26/75			3.12E-06	g/L	L	Drainable Liquid	Wastren	Pu239/240	8.23E+03		
C112	Pu	6/26/75	T-5624	1.2222	0.0000118	gm/gal	L	No Solids	RAW	Pu239/240	8.22E+03		
C112	Pu	6/26/75	T-5624	1.12	1.18E-05	gm/gal	P	Supernate	Braun	Pu239/240	8.22E+03		
TX118	Pu	2/25/75	T-9991	1.397	0.0000115	g/gal	L		RAW	Pu239/240	8.01E+03		
TX118	Pu	2/25/75	T-9991	1.397	1.15E-05	gm/gal	P	Supernate	Braun	Pu239/240	8.01E+03		
S105	Pu	1/21/74	T-737	1.4833	2.98E-06	g/l	L		RAW	Pu239/240	7.86E+03		
S105	Pu	1/21/74	T-737	1.4833	2.98E-06	gm/l	P	Supernate	Braun	Pu239/240	7.86E+03		
B109	PU	10/6/75			2.91E-06	g/L	P	Supernate	Wastren	Pu239/240	7.68E+03		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B109	Pu	10/6/75	T-8578	1.282	0.000011	gm/gal	L	No solids	RAW	Pu239/240	7.67E+03		
B109	Pu	10/6/75	T-8578	1.282	1.10E-05	gm/gal	P	Supernate	Braun	Pu239/240	7.67E+03		
TX109	Pu239/240	5/20/75			2.05E-01	uCi/L	L	LIQUID	RAW	Pu239/240	7.59E+03		
T105	Pu239/240	5/28/93	B08WT3	0.9933333	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	6.96E+03		
SX101	Pu	7/14/80	T-1013	1.06	2.55E-06	gm/l	P	Supernate	Braun	Pu239/240	6.73E+03		
S112	Pu	1/7/74	T-181	1.1739	2.46E-06	g/l	L	No Solids	RAW	Pu239/240	6.49E+03		
S112	Pu	1/7/74	T-181	1.1739	2.46E-06	gm/l	P	Supernate	Braun	Pu239/240	6.49E+03		
SX101	Pu	11/20/74	T-6496	1.318	9.31E-06	gm/gal	L	No Solids	RAW	Pu239/240	6.49E+03		
SX101	Pu	11/20/74	T-6496	1.318	9.31E-06	gm/gal	P	Supernate	Braun	Pu239/240	6.49E+03		
TX104	Pu	9/17/74	T-5118	1.2365	2.35E-06	gm/l	L	No Solids	RAW	Pu239/240	6.20E+03		
TX104	Pu	9/17/74	T-5118	1.2365	2.35E-06	gm/l	P	Supernate	Braun	Pu239/240	6.20E+03		
S109	Pu	10/5/73	T-9494	1.249	2.29E-06	g/l	L	Clear	RAW	Pu239/240	6.04E+03		
S109	Pu	10/5/73	T-9494	1.249	2.29E-06	gm/l	P	Supernate	Braun	Pu239/240	6.04E+03		
SX103	Pu	4/11/75		1.38	2.23E-06	g/L	P	Supernatant	RAW	Pu239/240	5.88E+03		
SX103	Pu	4/11/75	RAT-SX103-1	1.38	2.23E-06	gm/l	P	Supernate	Braun	Pu239/240	5.88E+03		
BX106	Pu	3/16/90			2.10E-06	g/L	P	Supernate	Wastren	Pu239/240	5.54E+03		
BX110	Pu239/240	5/20/75		1.414	1.40E-01	uCi/L	L	solutions	RAW	Pu239/240	5.18E+03		
TX118	Pu	8/2/74	T-6109	1.423	7.23E-06	g/gal	L		RAW	Pu239/240	5.04E+03		
TX118	Pu	8/2/74	T-6109	1.427	7.23E-06	gm/gal	P	Supernate	Braun	Pu239/240	5.04E+03		
SX102	Pu	10/14/74	T-6736	1.2239	7.12E-06	gm/gal	P	Supernate	Braun	Pu239/240	4.96E+03		
SX102	Pu	10/14/74	T-6736	1.2239	7.12E-06	gm/gal	L		RAW	Pu239/240	4.96E+03		
BX106	Pu239/240	3/16/90	R-6037	1.33	1.29E-01	uCi/l	P	Supernate	Braun	Pu239/240	4.77E+03		
BX106	Pu239/240	3/16/90	R6037	1.33	1.29E-01	uCi/L	P	Supernate	RAW	Pu239/240	4.77E+03		
S105	Pu	10/5/73	T-9492	1.2262	1.74E-06	g/l	L	Clear	RAW	Pu239/240	4.59E+03		
S106	Pu	10/5/73	T-9492	1.2262	1.74E-06	gm/l	P	Supernate	Braun	Pu239/240	4.59E+03		
BX102	Pu	9/30/74	T-8511	1.4669	6.21E-06	gm/gal	P	Supernate	Braun	Pu239/240	4.33E+03		
BX102	Pu	9/30/74			1.64E-06	g/L	P	Supernate	Wastren	Pu239/240	4.33E+03		
U203	Pu	9/25/75	T-8246	1.224	5.68E-06	g/gal	L	No solids	RAW	Pu239/240	3.96E+03		
SX106	Pu	12/6/74	T-8041	1.004	5.34E-06	gm/gal	L	No Solids	RAW	Pu239/240	3.72E+03		
BX111	Pu	3/16/90			1.40E-06	g/L	P	Supernate	Wastren	Pu239/240	3.69E+03		
U111	Pu	7/8/75	T-5957	1.1178	5.06E-06	g/gal	L	No solids	RAW	Pu239/240	3.53E+03		
BX110	Pu	3/16/90			1.30E-06	g/L	P	Supernate	Wastren	Pu239/240	3.43E+03		
S102	Pu	10/5/73	T-9488	1.2297	1.29E-06	g/L	L	No Solids	RAW	Pu239/240	3.40E+03		
S102	Pu	12/28/75	T-1018	1.4	4.84E-06	g/gal	D	Suspended Solids	RAW	Pu239/240	3.37E+03		
SX104	Pu	10/21/74	T-7326	1.4618	4.69E-06	gm/gal	L		RAW	Pu239/240	3.27E+03		
SX104	Pu	10/21/74	T-7326	1.4618	4.69E-06	gm/gal	P	Supernate	Braun	Pu239/240	3.27E+03		
SX101	Pu	10/29/80	RAT-SX101-1	1.02	1.22E-06	gm/l	P	Supernate	Braun	Pu239/240	3.22E+03		
SX101	Pu	10/29/80		1.02	1.22E-06	g/l	U	Shallow	RAW	Pu239/240	3.22E+03		
BX111	Pu239/240	3/16/90	R-6041	1.44	8.58E-02	uCi/l	P	Supernate	Braun	Pu239/240	3.17E+03		
BX111	Pu239/240	3/16/90	R6041	1.14	0.0858	uCi/L	P	supernate	RAW	Pu239/240	3.17E+03		
S106	Pu	6/4/75	RAT-S106-3	1.45	1.17E-06	gm/l	P	Supernate	Braun	Pu239/240	3.09E+03		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information				Bq/L Decayed	ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L		
S106	Pu	7/23/75		1.45	1.17E-06	g/l	L		RAW	Pu239/240	3.09E+03		
T111	Pu	6/7/74	T-3304	1.018	1.17E-06	g/l	L		RAW	Pu239/240	3.09E+03		
T111	Pu	6/7/74	T-3304	1.018	1.17E-06	gm/l	P	Supernate	Braun	Pu239/240	3.09E+03		
C204	Pu	6/26/75			1.17E-06	g/L	P	Supernate	Wastren	Pu239/240	3.09E+03		
S106	Pu	6/4/75			1.17E-06	g/L	P	Supernate	Wastren	Pu239/240	3.09E+03		
SX111	Pu	8/1/75			1.17E-06	g/L	L	Drainable Liquid	Wastren	Pu239/240	3.09E+03		
S106	Pu	1/21/74	T-738	1.4913	4.28E-06	gm/gal	P	Supernate	Braun	Pu239/240	2.98E+03		
BX110	Pu239/240	3/16/90	R-6040	1.37	0.0799	uCi/l	P	Supernate	Braun	Pu239/240	2.96E+03		
U103	Pu	1/30/74	T-1542U	1.322	1.07E-06	gm/l	P	Supernate	Braun	Pu239/240	2.82E+03		
U103	Pu	1/30/79	T-1542	1.322	1.07E-06	g/l	L	Feed Sample	RAW	Pu239/240	2.82E+03		
U108	Pu	1/21/74	T-151	1.0056	1.04E-06	g/l	L	No Solids	RAW	Pu239/240	2.74E+03		
U108	Pu	1/21/74	T-151	1.0056	1.04E-06	gm/l	P	Supernate	Braun	Pu239/240	2.74E+03		
U202	Pu	9/25/75			9.99E-07	g/L	P	Supernate	Wastren	Pu239/240	2.64E+03		
B202	Pu	10/6/75	T-8579	1.018	3.78E-06	gm/gal	L	No Solids	RAW	Pu239/240	2.63E+03		
B202	Pu	10/6/75	T-8579	1.018	3.78E-06	gm/gal	P	Supernate	Braun	Pu239/240	2.63E+03		
S103	Pu	1/21/74	T-736	1.0742	9.51E-07	g/l	L	Clear	RAW	Pu239/240	2.51E+03		
S103	Pu	1/21/74	T-736	1.0742	9.51E-07	gm/l	P	Supernate	Braun	Pu239/240	2.51E+03		
T107	Pu239/240	3/1/93	B08VB5	1.105	6.70E-05	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	2.48E+03		
U106	Pu	2/26/74			9.39E-07	g/L	P	Supernate	Wastren	Pu239/240	2.48E+03		
T107	Pu239/240	3/1/93	B08V16	1.02	6.60E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	2.44E+03		
T107	Pu239/240	3/1/93	B08V16	1.02	6.57E-05	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	2.43E+03		
S103	Pu239/240	10/11/91	T-8525		6.36E-02	uCi/L	L	Clear	RAW	Pu239/240	2.35E+03		
T107	Pu239/240	3/1/93	B08VB5	1.105	6.28E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	2.32E+03		
S108	Pu	10/5/73	T-9493	1.2455	7.63E-07	g/L	L	Clear	RAW	Pu239/240	2.01E+03		
S108	Pu	10/5/73	T-9493	1.2455	7.63E-07	gm/l	P	Supernate	Braun	Pu239/240	2.01E+03		
S105	Pu	10/5/73	T-9491	1.25	6.34E-07	g/l	L	Clear	RAW	Pu239/240	1.67E+03		
S105	Pu	10/5/73	T-9491	1.25	6.34E-07	gm/l	P	Supernate	Braun	Pu239/240	1.67E+03		
S103	Pu	10/5/73	T-9490	1.3517	4.93E-07	g/l	L	Clear	RAW	Pu239/240	1.30E+03		
S103	Pu	10/5/73	T-9490	1.3517	4.93E-07	gm/l	P	Supernate	Braun	Pu239/240	1.30E+03		
S106	Pu239/240	10/28/91	T-8578		3.21E-02	uCi/L	O	Aqueous	RAW	Pu239/240	1.19E+03		
S107	Pu239/240	10/3/91	T-8535		0.0276	uCi/L	L	Clear, few solids	RAW	Pu239/240	1.02E+03		
SX101	Pu	12/4/78	4523	1.76	2.14E-07	g/l	P	Supernatant	RAW	Pu239/240	5.65E+02		
SX101	Pu	12/4/78	4523	1.52	2.14E-07	gm/l	P	Supernate	Braun	Pu239/240	5.65E+02		
SX101	Pu	12/4/78	4523	1.76	2.14E-07	gm/l	P	Supernate	Braun	Pu239/240	5.65E+02		
TX118	Pu	8/5/74	7068A		1.95E-07	gm/l	P	Supernate	Braun	Pu239/240	5.14E+02		
TX109	Pu239						L		TRAC	Pu239/240	8.41E+00		
TX105	Pu239						L		TRAC	Pu239/240	6.09E+00		
SX106	Pu239						L		TRAC	Pu239/240	3.70E+00		
TX110	Pu239						L		TRAC	Pu239/240	2.52E+00		
B108	Pu239						L		TRAC	Pu239/240	2.52E+00		
B102	Pu239						L		TRAC	Pu239/240	1.96E+00		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U107	Pu239						L		TRAC	Pu239/240	1.64E+00		
B103	Pu239						L		TRAC	Pu239/240	1.54E+00		
U111	Pu239						L		TRAC	Pu239/240	1.31E+00		
AX103	Pu239						L		TRAC	Pu239/240	9.67E-01		
B202	Pu239						L		TRAC	Pu239/240	9.34E-01		
B106	Pu239						L		TRAC	Pu239/240	8.82E-01		
BX110	Pu239						L		TRAC	Pu239/240	6.09E-01		
BX111	Pu239						L		TRAC	Pu239/240	4.85E-01		
BY109	Pu239						L		TRAC	Pu239/240	4.59E-01		
SX105	Pu239						L		TRAC	Pu239/240	4.37E-01		
S111	Pu239						L		TRAC	Pu239/240	4.06E-01		
S110	Pu239						L		TRAC	Pu239/240	3.73E-01		
TX111	Pu239						L		TRAC	Pu239/240	3.65E-01		
BY101	Pu239						L		TRAC	Pu239/240	3.25E-01		
S101	Pu239						L		TRAC	Pu239/240	2.63E-01		
SX104	Pu239						L		TRAC	Pu239/240	2.56E-01		
C107	Pu239						L		TRAC	Pu239/240	2.53E-01		
BY108	Pu239						L		TRAC	Pu239/240	2.32E-01		
TY102	Pu239						L		TRAC	Pu239/240	2.07E-01		
BY104	Pu239						L		TRAC	Pu239/240	2.04E-01		
BY110	Pu239						L		TRAC	Pu239/240	1.98E-01		
BY106	Pu239						L		TRAC	Pu239/240	1.95E-01		
BY111	Pu239						L		TRAC	Pu239/240	1.84E-01		
T101	Pu239						L		TRAC	Pu239/240	1.82E-01		
BY112	Pu239						L		TRAC	Pu239/240	1.65E-01		
BY105	Pu239						L		TRAC	Pu239/240	1.62E-01		
S108	Pu239						L		TRAC	Pu239/240	1.46E-01		
BY107	Pu239						L		TRAC	Pu239/240	1.39E-01		
T103	Pu239						L		TRAC	Pu239/240	1.01E-01		
S106	Pu239						L		TRAC	Pu239/240	9.04E-02		
TY103	Pu239						L		TRAC	Pu239/240	4.79E-02		
A103	Pu239						L		TRAC	Pu239/240	4.32E-02		
B109	Pu239						L		TRAC	Pu239/240	3.71E-02		
T102	Pu239						L		TRAC	Pu239/240	3.16E-02		
U102	Pu239						L		TRAC	Pu239/240	1.50E-02		
TX103	Pu239						L		TRAC	Pu239/240	1.49E-02		
TX112	Pu239						L		TRAC	Pu239/240	6.72E-03		
TX102	Pu239						L		TRAC	Pu239/240	3.47E-04		
A106	Pu239						L		TRAC	Pu239/240	3.87E-08		
S107	Pu239						L		TRAC	Pu239/240	1.92E-09		
U106	Pu239						L		TRAC	Pu239/240	1.54E-09		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Liquids [Sketch ES-VAL-CR15]
 ASA Value: 3.62E+07 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B101	Pu239						L		TRAC	Pu239/240	1.47E-09		
C104	Pu239						L		TRAC	Pu239/240	9.13E-10		
TX104	Pu239						L		TRAC	Pu239/240	4.22E-10		
S102	Pu239						L		TRAC	Pu239/240	2.38E-10		
SX101	Pu239						L		TRAC	Pu239/240	6.95E-11		
AX101	Pu239						L		TRAC	Pu239/240	7.49E-12		
AX102	Pu239						L		TRAC	Pu239/240	6.10E-16		
BX101	Pu239						L		TRAC	Pu239/240	1.76E-16		
TX107	Pu239						L		TRAC	Pu239/240	9.50E-17		
U104	Pu239						L		TRAC	Pu239/240	3.04E-17		
TY106	Pu239						L		TRAC	Pu239/240	2.04E-21		
C102	Pu239						L		TRAC	Pu239/240	2.22E-22		
C203	Pu239						L		TRAC	Pu239/240	5.05E-23		
C110	Pu239						L		TRAC	Pu239/240	1.09E-24		
C202	Pu239						L		TRAC	Pu239/240	3.13E-27		
T107	Pu239						L		TRAC	Pu239/240	2.48E-29		
C106	Pu239						L		TRAC	Pu239/240	8.02E-32		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TY104	Pu	9/18/80		1.57	4.12	g/g	S	Water soluble	RAW	Pu239/240	1.71E+13		6
U203	Pu	12/4/78	1766	1.6	0.929	g/g	S	Acid Fusion	RAW	Pu239/240	3.92E+12		15
U203	Pu	12/4/78	1766	1.6	0.123	g/g	S	Water Soluble	RAW	Pu239/240	5.19E+11		15
TY102	Pu239/240	9/9/85					K		Wastren	Pu239/240	1.42E+11		14
TY102	Pu239/240	3/1/86	41X		0.645	Ci/gal	S	SOLID	RAW	Pu239/240	6.30E+09		6
TX118	Pu	10/16/81	RAT-TX118-6		0.00101	gm/gm	S	Supernate/Solids	Braun	Pu239/240	4.26E+09		14
TY103	Pu	2/1/80		1.74	0.000357	g/g	S	Water soluble	RAW	Pu239/240	1.64E+09		14
AX102	Pu239						S		TRAC	Pu239/240	1.40E+09		4
B202	Pu239						S		TRAC	Pu239/240	1.18E+09		4
TY103	Pu	9/18/80		1.74	0.000228	g/g	S	Water soluble	RAW	Pu239/240	1.05E+09		14
B103	Pu239						S		TRAC	Pu239/240	6.94E+08		4
AX101	Pu239						S		TRAC	Pu239/240	6.74E+08		4
B101	Pu239						S		TRAC	Pu239/240	5.59E+08		4
SX115	Pu	3/10/75					G		Wastren	Pu239/240	5.17E+08		6
SX115	Pu	3/10/75		0.55	0.196	grams/l	S	Dry	RAW	Pu239/240	5.17E+08		6
A106	Pu239						S		TRAC	Pu239/240	5.06E+08		4
AX104	Pu239						S		TRAC	Pu239/240	4.60E+08		4
ASA Value: 4.4E+08 Bq/L													
SX115	Pu239/240	3/10/75					G		Wastren	Pu239/240	4.45E+08		*
A103	Pu239						S		TRAC	Pu239/240	4.21E+08		
AX104	Pu239/240	9/15/77					G		Wastren	Pu239/240	3.41E+08		
C106	Pu239/240	9/1/80	4		5520	uCi/kg	O		RAW	Pu239/240	3.27E+08		
A105	Pu	1/12/72		1.54	0.000079	g/g	S	Solids	RAW	Pu239/240	3.21E+08		
A105	Pu	1/12/72	RAT-A105-1B	1.54	0.000079	gm/gm	S	Solids	Braun	Pu239/240	3.21E+08		
AX104	Pu	9/15/77					G		Wastren	Pu239/240	2.77E+08		
BX101	Pu239						S		TRAC	Pu239/240	2.57E+08		
A104	Pu239/240	9/4/74					G		Wastren	Pu239/240	2.50E+08		
B201	Pu	12/4/78	1898		0.00005	g/g	S	Acid Fusion	RAW	Pu239/240	2.11E+08		
TY104	Pu239						S		TRAC	Pu239/240	1.95E+08		
C110	Pu239						S		TRAC	Pu239/240	1.92E+08		
C106	Pu239/240	5/19/86			3.05	uCi/g	S	Core, solid	RAW	Pu239/240	1.81E+08		
C106	Pu239/240	5/1/87	3		3050	uCi/kg	S		RAW	Pu239/240	1.81E+08		
A106	Pu	3/13/86					G		Wastren	Pu239/240	1.76E+08		
U109	Pu	11/12/75					G		Wastren	Pu239/240	1.75E+08		
B201	Pu	12/4/78					G		Wastren	Pu239/240	1.74E+08		
C105	Pu239/240	4/11/86					G		Wastren	Pu239/240	1.70E+08		
S107	Pu239/240	10/16/78					G		Wastren	Pu239/240	1.63E+08		
C106	Pu239/240	4/14/87		1.43	3.05	uCi/g	S	solid	RAW	Pu239/240	1.61E+08		
B102	Pu239						S		TRAC	Pu239/240	1.58E+08		
B201	Pu239/240	12/4/78					G		Wastren	Pu239/240	1.56E+08		
A106	Pu239/240	3/13/86					G		Wastren	Pu239/240	1.51E+08		
U109	Pu239/240	11/12/75					G		Wastren	Pu239/240	1.51E+08		
C201	Pu	12/4/78	T-3421		0.0000348	g/g	S	Acid Fusion	RAW	Pu239/240	1.47E+08		

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WCH-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C106	Pu239/240	5/19/86					G		Wastren	Pu239/240	1.42E+08		
C106	Pu239/240	7/1/77	5	2.44	1530	uCi/kg	O		RAW	Pu239/240	1.38E+08		
T203	Pu239						S		TRAC	Pu239/240	1.36E+08		
TY105	Pu239						S		TRAC	Pu239/240	1.32E+08		
B204	Pu239						S		TRAC	Pu239/240	1.27E+08		
C104	Pu	8/23/77	9172		0.047	g/l	S		RAW	Pu239/240	1.24E+08		
TY103	Pu239						S		TRAC	Pu239/240	1.19E+08		
C102	Pu239						S		TRAC	Pu239/240	1.16E+08		
A105	Pu	1/12/72		1.54	0.000028	g/g	S	Solids	RAW	Pu239/240	1.14E+08		
S106	Pu	6/4/75					G		Wastren	Pu239/240	1.14E+08		
S106	Pu	6/4/75	RAT-S106-2	1.59	0.0000271	gm/gm	S	Solids	Braun	Pu239/240	1.14E+08		
S106	Pu	7/23/75		1.59	0.0000271	g/g	S	Solid	RAW	Pu239/240	1.14E+08		
A105	Pu	1/12/72		1.43	0.000028	g/g	S	Solids	RAW	Pu239/240	1.06E+08		
A105	Pu	1/12/72	RAT-A105-2	1.43	0.000028	gm/gm	R	Slurry	Braun	Pu239/240	1.06E+08		
BY110	Pu239						S		TRAC	Pu239/240	9.84E+07		
S106	Pu239/240	6/4/75					G		Wastren	Pu239/240	9.78E+07		
C104	Pu	8/23/77	9172		0.036	g/l	S		RAW	Pu239/240	9.50E+07		
A105	Pu	1/12/72	RAT-A105-1A	1.54	0.000023	gm/gm	S	Solids	Braun	Pu239/240	9.34E+07		
A105	Pu	1/12/72					G		Wastren	Pu239/240	9.34E+07		
T104	Pu239						S		TRAC	Pu239/240	9.21E+07		
A101	Pu239						S		TRAC	Pu239/240	8.67E+07		
C111	Pu239						S		TRAC	Pu239/240	8.40E+07		
BX109	Pu239						S		TRAC	Pu239/240	8.07E+07		
A105	Pu239/240	1/12/75					G		Wastren	Pu239/240	8.04E+07		
C107	Pu	9/26/77	AL#3144		0.03	g/l	S		RAW	Pu239/240	7.91E+07		
T107	Pu239						S		TRAC	Pu239/240	7.48E+07		
C107	Pu	9/26/77	AL#3143		0.028	g/l	S		RAW	Pu239/240	7.39E+07		
C107	Pu239						S		TRAC	Pu239/240	6.73E+07		
BX107	Pu239						S		TRAC	Pu239/240	6.43E+07		
C102	Pu	1/21/88	E1XC00XX		1.07	uCi/g	S		RAW	Pu239/240	6.33E+07		
C106	Pu239						S		TRAC	Pu239/240	5.97E+07		
C112	Pu239						S		TRAC	Pu239/240	5.66E+07		
C104	Pu239						S		TRAC	Pu239/240	5.28E+07		
C105	Pu239						S		TRAC	Pu239/240	5.25E+07		
C107	Pu	9/26/77	510		0.0014	Ci/l	S		RAW	Pu239/240	5.18E+07		
B201	Pu239/240	8/1/91	B08F50	1.6	0.838	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	4.96E+07		
B101	Pu	2/24/76		1.59	0.0188	g/l	S		RAW	Pu239/240	4.96E+07		
B101	Pu	1/5/76					G		Wastren	Pu239/240	4.96E+07		
B201	Pu239/240	8/1/91	B08F50	1.6	0.766	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	4.53E+07		
S107	Pu239						S		TRAC	Pu239/240	4.43E+07		
C105	Pu239/240	2/1/91			747	nCi/g	S	126 +/-	RAW	Pu239/240	4.42E+07		
B101	Pu239/240	1/5/76					G		Wastren	Pu239/240	4.27E+07		
TY103	Pu	2/1/80		1.67	8.04E-06	g/g	S	Water Insoluble	RAW	Pu239/240	3.54E+07		
TX109	Pu239						S		TRAC	Pu239/240	2.96E+07		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B204	Pu	12/4/78	1974	1.14	9.74E-06	g/g	S	Acid Fusion	RAW	Pu239/240	2.93E+07		
B204	Pu	12/4/78					G		Wastren	Pu239/240	2.93E+07		
BX104	Pu	2/26/86					G		Wastren	Pu239/240	2.82E+07		
C104	Pu	4/15/86					G		Wastren	Pu239/240	2.77E+07		
TY101	Pu239						S		TRAC	Pu239/240	2.73E+07		
S108	Pu239						S		TRAC	Pu239/240	2.65E+07		
B203	Pu	12/4/78	2782	1.09	9.01E-06	g/g	S	Acid Fusion	RAW	Pu239/240	2.59E+07		
SX103	Pu	4/11/75		1.53	0.00973	g/L	S	Mud like	RAW	Pu239/240	2.57E+07		
BY108	Pu239						S		TRAC	Pu239/240	2.53E+07		
B204	Pu239/240	12/4/78					G		Wastren	Pu239/240	2.50E+07		
S104	Pu239/240	4/13/90					G		Wastren	Pu239/240	2.49E+07		
BY104	Pu239						S		TRAC	Pu239/240	2.46E+07		
S104	Pu239/240	8/1/92	B08TL3	1.6	0.404	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	2.39E+07		
S104	Pu239/240	8/2/92			0.404	uCi/g	S		RAW	Pu239/240	2.39E+07		
B202	Pu	12/4/78	2509		0.0000055	g/g	S	Acid Fusion	RAW	Pu239/240	2.32E+07		
S104	Pu239/240	8/1/92	B08TJ5	1.6	0.385	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.28E+07		
S104	Pu239/240	8/2/92			0.385	uCi/g	S		RAW	Pu239/240	2.28E+07		
S104	Pu239/240	8/1/92	B08TL4	1.6	0.366	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.17E+07		
S104	Pu239/240	8/2/92			0.366	uCi/g	S		RAW	Pu239/240	2.17E+07		
S104	Pu239/240	8/1/92	B08TL3	1.6	0.365	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.16E+07		
S104	Pu239/240	8/2/92			0.365	uCi/g	S		RAW	Pu239/240	2.16E+07		
S107	Pu239/240	10/3/91	T-8526		580	uCi/L	S	Half aqueous, half sludg	RAW	Pu239/240	2.15E+07		
S104	Pu239/240	8/1/92	B08TJ5	1.6	0.361	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	2.14E+07		
S104	Pu239/240	8/2/92			0.361	uCi/g	S		RAW	Pu239/240	2.14E+07		
U107	Pu	12/9/74					G		Wastren	Pu239/240	2.12E+07		
U107	Pu	12/9/74		1.14	0.00804	g/l	S	Crystals	RAW	Pu239/240	2.12E+07		
BY107	Pu239						S		TRAC	Pu239/240	1.99E+07		
A104	Pu239						S		TRAC	Pu239/240	1.92E+07		
B202	Pu239	6/7/91	B0BC10	1.6	0.319	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.89E+07		
T106	Pu	2/27/75					G		Wastren	Pu239/240	1.88E+07		
S104	Pu239/240	8/1/92	B08TJ4	1.6	0.314	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.86E+07		
S104	Pu239/240	8/2/92			0.314	uCi/g	S		RAW	Pu239/240	1.86E+07		
S104	Pu239/240	8/1/92	B08TL4	1.6	0.31	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.84E+07		
S104	Pu239/240	8/2/92			0.31	uCi/g	S		RAW	Pu239/240	1.84E+07		
U107	Pu239/240	12/9/75					G		Wastren	Pu239/240	1.82E+07		
C101	Pu239						S		TRAC	Pu239/240	1.79E+07		
S104	Pu239/240	8/1/92	B08TJ4	1.6	0.296	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	1.75E+07		
S104	Pu239/240	8/2/92			0.296	uCi/g	S		RAW	Pu239/240	1.75E+07		
U110	Pu239						S		TRAC	Pu239/240	1.71E+07		
T104	Pu	9/18/80			4.03E-06	g/g	S	Water Insoluble	RAW	Pu239/240	1.70E+07		
U102	Pu	3/1/76		1.6	0.0064	g/l	S	Solids	RAW	Pu239/240	1.69E+07		
U102	Pu	3/1/76	RAT-U102-1	1.27	0.0064	gm/l	S	Supernate/Solids	Braun	Pu239/240	1.69E+07		
U102	Pu	3/1/76	RAT-U102-1	1.38	0.0064	gm/l	S	Supernate/Solids	Braun	Pu239/240	1.69E+07		
U102	Pu	3/1/76	RAT-U102-1	1.6	0.0064	gm/l	S	Supernate/Solids	Braun	Pu239/240	1.69E+07		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
T106	Pu239/240	2/27/75					G		Wastren	Pu239/240	1.61E+07		
BY105	Pu239						S		TRAC	Pu239/240	1.59E+07		
S101	Pu	6/4/75		1.52	0.00597	g/l	S	Soft Mud	RAW	Pu239/240	1.57E+07		
T105	Pu239						S		TRAC	Pu239/240	1.50E+07		
B202	Pu239	6/7/91	BOBC10	1.6	0.25	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	1.48E+07		
U102	Pu239/240	3/1/76					G		Wastren	Pu239/240	1.45E+07		
C108	Pu239						S		TRAC	Pu239/240	1.44E+07		
T108	Pu239						S		TRAC	Pu239/240	1.40E+07		
T104	Pu	9/18/80					G		Wastren	Pu239/240	1.39E+07		
SX112	Pu239						S		TRAC	Pu239/240	1.33E+07		
S110	Pu239						S		TRAC	Pu239/240	1.29E+07		
TY104	Pu	8/16/85					G		Wastren	Pu239/240	1.29E+07		
TY104	Pu	9/18/80		1.57	3.02E-06	g/g	S	Water Insoluble	RAW	Pu239/240	1.25E+07		
B107	Pu239						S		TRAC	Pu239/240	1.23E+07		
B202	Pu239	6/7/91	BOBC11	1.6	0.207	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	1.23E+07		
T104	Pu239/240	9/18/80					G		Wastren	Pu239/240	1.20E+07		
TY103	Pu239/240	8/21/85					G		Wastren	Pu239/240	1.20E+07		
B107	Pu	1/19/76					G		Wastren	Pu239/240	1.18E+07		
TY101	Pu239/240	7/8/87		1.64	0.191	uCi/g	S	CREAMY	RAW	Pu239/240	1.16E+07		
SX106	Pu239/240	4/18/78		1.33	3.29E-06	g/g	S	Solids(KOH Fusion)	RAW	Pu239/240	1.15E+07		
TY101	Pu239/240	9/11/85					G		Wastren	Pu239/240	1.15E+07		
C112	Pu239/240	3/1/92	BO8DY1	2	0.155	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.15E+07		
BY106	Pu239						S		TRAC	Pu239/240	1.14E+07		
TY104	Pu	9/18/80		1.57	2.74E-06	g/g	S	Water Insoluble	RAW	Pu239/240	1.13E+07		
TX114	Pu239						S		TRAC	Pu239/240	1.13E+07		
A102	Pu239						S		TRAC	Pu239/240	1.11E+07		
TY104	Pu239/240	8/16/85					G		Wastren	Pu239/240	1.11E+07		
SX107	Pu239						S		TRAC	Pu239/240	1.10E+07		
C112	Pu239/240	3/1/92	BO8DY1	2	0.147	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	1.09E+07		
B202	Pu239	6/7/91	BOBC05	1.6	0.183	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.08E+07		
SX106	Pu239	4/18/78	8301	1.37	3.478E-06	gm/gm	S	Supernate/Solids	Braun	Pu239/240	1.08E+07		
TY106	Pu239						S		TRAC	Pu239/240	1.08E+07		
SX106	Pu239	4/18/78	8301	1.33	3.478E-06	gm/gm	S	Supernate/Solids	Braun	Pu239/240	1.05E+07		
B202	Pu239/240	12/31/91					G		Wastren	Pu239/240	1.04E+07		
B107	Pu239/240	1/19/76					G		Wastren	Pu239/240	1.02E+07		
T105	Pu239/240	5/28/93	BO8WT4	1.745	0.153	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.88E+06		
T107	Pu239/240	3/1/93	BO8VB9	1.19	0.22	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	9.69E+06		
BX108	Pu239						S		TRAC	Pu239/240	9.58E+06		
B202	Pu239/240	6/7/91	BOBC11	1.6	0.161	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.53E+06		
S101	Pu239						S		TRAC	Pu239/240	9.34E+06		
S104	Pu239/240	8/1/92	BO8TF7	1.6	0.157	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.29E+06		
S104	Pu239/240	8/2/92			0.157	uCi/g	S		RAW	Pu239/240	9.29E+06		
B202	Pu239	6/7/91	BOBC04	1.6	0.155	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.18E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C112	Pu239/240	3/1/92	B08DT4	1.6	0.155	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.18E+06		
S104	Pu239/240	8/1/92	B08TF7	1.6	0.154	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	9.12E+06		
S104	Pu239/240	8/2/92			0.154	uCi/g	S		RAW	Pu239/240	9.12E+06		
C110	Pu239/240	4/23/92			0.153	uCi/g	S		RAW	Pu239/240	9.06E+06		
C110	Pu239/240	4/23/92	B08VJ5	1.6	0.153	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	9.06E+06		
T111	Pu239/240	11/1/91	B08WZ1	1.6	0.153	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	9.06E+06		
T104	Pu239/240	8/26/92	B08TC0	1.6	0.152	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	9.00E+06		
T104	Pu239/240	8/26/92	B08TB9	1.6	0.15	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.88E+06		
T104	Pu239/240	8/26/92	B08TT7	1.6	0.143	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.47E+06		
SX111	Pu239						S		TRAC	Pu239/240	8.43E+06		
T104	Pu239/240	8/26/92	B08TC0	1.6	0.142	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.41E+06		
T111	Pu239/240	11/1/91	B08WZ1	1.6	0.142	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.41E+06		
BY103	Pu239						S		TRAC	Pu239/240	8.38E+06		
B202	Pu239/240	6/7/91	B08C11	1.6	0.141	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.35E+06		
T104	Pu239/240	8/26/92	B08TB9	1.6	0.141	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.35E+06		
T111	Pu239/240	11/1/91	B08WR1	1.6	0.141	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.35E+06		
T105	Pu239/240	5/28/93	B08WT4	1.745	0.128	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.26E+06		
T111	Pu239/240	11/1/91	B08WZ0	1.6	0.139	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.23E+06		
S104	Pu239/240	8/1/92	B08TF6	1.6	0.137	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.11E+06		
S104	Pu239/240	8/2/92			0.137	uCi/g	S		RAW	Pu239/240	8.11E+06		
T111	Pu239/240	11/1/91	B08WR2	1.6	0.137	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.11E+06		
T107	Pu239/240	3/1/93	B08VB9	1.19	0.184	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.10E+06		
S104	Pu239/240	8/1/92	B08TF6	1.6	0.136	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.05E+06		
S104	Pu239/240	8/2/92			0.136	uCi/g	S		RAW	Pu239/240	8.05E+06		
T104	Pu239/240	8/26/92	B08TT8	1.6	0.136	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	8.05E+06		
C110	Pu239/240	4/23/92			0.135	uCi/g	S		RAW	Pu239/240	7.99E+06		
C110	Pu239/240	4/23/92	B08VJ5	1.6	0.135	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.99E+06		
T111	Pu239/240	11/1/91	B08WR1	1.6	0.135	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	7.99E+06		
T111	Pu239/240	11/1/91	B08WR2	1.6	0.134	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	7.93E+06		
SX114	Pu239						S		TRAC	Pu239/240	7.84E+06		
T107	Pu239/240	3/1/93	B08VD2	1.6	0.131	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.76E+06		
T107	Pu239/240	3/1/93	B08VB9	1.19	0.176	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.75E+06		
SX102	Pu239/240	4/18/75		1.88	1.56E-06	g/g	S	Solid	RAW	Pu239/240	7.74E+06		
TX110	Pu239						S		TRAC	Pu239/240	7.71E+06		
T104	Pu239/240	8/26/92	B08TT8	1.6	0.13	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	7.70E+06		
T107	Pu239/240	3/1/93	B08V44	1.1	0.188	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.65E+06		
T107	Pu239/240	3/1/93	B08VD2	1.6	0.129	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.64E+06		
T111	Pu239/240	11/1/91	B08WZ0	1.6	0.129	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	7.64E+06		
BX107	Pu	9/18/80			1.75E-06	g/g	S	Water Soluble	RAW	Pu239/240	7.39E+06		
T104	Pu239/240	8/26/92	B08TT7	1.6	0.124	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	7.34E+06		
T107	Pu239/240	3/1/93	B08VD2	1.6	0.124	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	7.34E+06		
SX102	Pu239/240	4/18/75		1.88	0.00273	g/l	S	Solid	RAW	Pu239/240	7.20E+06		
TY103	Pu	9/18/80		1.67	1.61E-06	g/g	S	Water Insoluble	RAW	Pu239/240	7.09E+06		
B202	Pu239	6/7/91	B08C05	1.6	0.118	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	6.99E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S104	Pu239						S		TRAC	Pu239/240	6.92E+06		
BX107	Pu239/240	7/25/79		1.46	1.75E-06	g/g	S	Solids, Acid	RAW	Pu239/240	6.74E+06		
A103	Pu239/240	4/3/86					K		Wastren	Pu239/240	6.74E+06		
T107	Pu239/240	3/1/93	B08VB9	1.19	0.153	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	6.74E+06		
BX105	Pu	3/4/86					G		Wastren	Pu239/240	6.52E+06		
B111	Pu239/240	10/1/91	B08XC3	1.6	0.109	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	6.45E+06		
T107	Pu239/240	3/1/93	B08VD2	1.6	0.108	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	6.39E+06		
T107	Pu239/240	3/1/93	B08V44	1.1	0.157	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	6.39E+06		
SX108	Pu239						S		TRAC	Pu239/240	6.36E+06		
B111	Pu239/240	10/1/91	B08XC1	1.6	0.107	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	6.33E+06		
C107	Pu	10/4/77	AL#2303		0.0024	g/l	S		RAW	Pu239/240	6.33E+06		
B111	Pu239/240	10/1/91	B08XC2	1.6	0.105	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	6.22E+06		
SX102	Pu239	4/18/75	RAT-SX102-1	1.88	0.00273	gm/l	S	Supernate/Solids	Braun	Pu239/240	6.20E+06		
C102	Pu	1/21/88	E1XCOOXX		167	uCi/L	S		RAW	Pu239/240	6.18E+06		
B111	Pu239/240	10/1/91	B08XC1	1.6	0.104	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	6.16E+06		
SX101	Pu239						S		TRAC	Pu239/240	6.05E+06		
U105	Pu	12/4/78					K		Wastren	Pu239/240	5.99E+06		
U105	Pu	12/4/78		1.62	0.0000014	g/g	S	Acid Fusion	RAW	Pu239/240	5.98E+06		
U204	Pu239/240	12/4/78					G		Wastren	Pu239/240	5.80E+06		
B111	Pu239/240	10/1/91	B08XC2	1.6	0.0951	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	5.63E+06		
BX105	Pu239/240	3/4/86					G		Wastren	Pu239/240	5.61E+06		
B111	Pu239/240	10/1/91	B08XC3	1.6	0.0944	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	5.59E+06		
T107	Pu239/240	3/1/93	B08VD2	1.6	0.0925	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	5.48E+06		
B203	Pu	1/7/83					G		Wastren	Pu239/240	5.41E+06		
B111	Pu239/240	10/1/91	B08XC0	1.6	0.0902	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	5.34E+06		
SX115	Pu239						S		TRAC	Pu239/240	5.27E+06		
C110	Pu239/240	4/23/92			0.0885	uCi/g	S		RAW	Pu239/240	5.24E+06		
C110	Pu239/240	4/23/92	B08W47	1.6	0.0885	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	5.24E+06		
U105	Pu239/240	12/14/78					K		Wastren	Pu239/240	5.15E+06		
BX107	Pu239/240	6/1/92	B08X98	1.6	0.0834	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	4.94E+06		
BX102	Pu239						S		TRAC	Pu239/240	4.68E+06		
B203	Pu239/240	1/7/83					G		Wastren	Pu239/240	4.65E+06		
BY104	Pu239/240	11/12/92					K		Wastren	Pu239/240	4.53E+06		
C110	Pu239/240	4/23/92			0.0765	uCi/g	S		RAW	Pu239/240	4.53E+06		
C110	Pu239/240	4/23/92	B08W47	1.6	0.0765	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	4.53E+06		
BX107	Pu239/240	6/1/92	B08X98	1.6	0.0757	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	4.48E+06		
SX104	Pu239						S		TRAC	Pu239/240	4.45E+06		
SX109	Pu239						S		TRAC	Pu239/240	4.41E+06		
B111	Pu239/240	10/1/91	B08XC0	1.6	0.0733	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	4.34E+06		
U103	Pu	8/15/77			0.0016	g/l	S	Solids	RAW	Pu239/240	4.22E+06		
BY104	Pu239/240	10/26/92	riser 5		0.07	uCi/g	S	wet solids	RAW	Pu239/240	4.14E+06		
BY104	Pu239/240	11/12/92	R-1773		0.07	uCi/gm	T	Crust	Braun	Pu239/240	4.14E+06		
TY105	Pu	9/18/80			9.69E-07	g/g	S	Water Insoluble	RAW	Pu239/240	4.09E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S108	Pu239/240	6/25/74					G		Wastren	Pu239/240	4.04E+06		
B110	Pu239						S		TRAC	Pu239/240	4.04E+06		
TX118	Pu239						S		TRAC	Pu239/240	4.02E+06		
C110	Pu239/240	4/23/92			0.0652	uCi/g	S		RAW	Pu239/240	3.86E+06		
C110	Pu239/240	4/23/92	B08VP1	1.6	0.0652	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.86E+06		
SX110	Pu239						S		TRAC	Pu239/240	3.84E+06		
BX101	Pu	1/26/76					G		Wastren	Pu239/240	3.83E+06		
C112	Pu239/240	3/1/92	B08DW5	1.6	0.0644	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	3.81E+06		
TX118	Pu	1/28/80	RAT-TX118-1	1.341	1.04E-06	gm/gm	S	Solids	Braun	Pu239/240	3.68E+06		
C110	Pu239/240	4/23/92			0.0617	uCi/g	S		RAW	Pu239/240	3.65E+06		
C110	Pu239/240	4/23/92	B08VP1	1.6	0.0617	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	3.65E+06		
TX113	Pu239						S		TRAC	Pu239/240	3.57E+06		
C103	Pu	3/28/75	T-3097	1.1434	0.00506	g/gal	S	Solids unknow	RAW	Pu239/240	3.53E+06		
T204	Pu	12/4/78	1914	1.07	1.23E-06	g/g	S	Water Insoluble	RAW	Pu239/240	3.47E+06		
BX112	Pu239						S		TRAC	Pu239/240	3.47E+06		
TX118	Pu	2/3/77	RAT-TX118-1	1.26	1.04E-06	gm/gm	S	Solids	Braun	Pu239/240	3.46E+06		
TX118	Pu	3/31/77		1.26	1.04E-06	g/g	S		RAW	Pu239/240	3.46E+06		
SX111	Pu	8/1/75	RAT-SX111-1	1.21	0.00131	gm/l	S	Supernate/Solids	Braun	Pu239/240	3.46E+06		
SX111	Pu	8/1/75	RAT-SX111-1	1.45	0.00131	gm/l	S	Supernate/Solids	Braun	Pu239/240	3.46E+06		
SX111	Pu	8/1/75					G		Wastren	Pu239/240	3.46E+06		
C110	Pu239/240	4/23/92			0.0583	uCi/g	S		RAW	Pu239/240	3.45E+06		
C110	Pu239/240	4/23/92	B08VN6	1.6	0.0583	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.45E+06		
B104	Pu239						S		TRAC	Pu239/240	3.34E+06		
BX107	Pu239/240	6/1/92	B08X70	1.6	0.0564	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.34E+06		
C110	Pu239/240	4/23/92			0.0558	uCi/g	S		RAW	Pu239/240	3.30E+06		
C110	Pu239/240	4/23/92	B08VN6	1.6	0.0558	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	3.30E+06		
TY102	Pu239						S		TRAC	Pu239/240	3.30E+06		
BX101	Pu239/240	3/8/76					G		Wastren	Pu239/240	3.29E+06		
BX107	Pu239/240	6/1/92	B08X70	1.6	0.0549	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	3.25E+06		
C110	Pu239/240	4/23/92			0.0544	uCi/g	S		RAW	Pu239/240	3.22E+06		
C110	Pu239/240	4/23/92	B08VK1	1.6	0.0544	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.22E+06		
T110	Pu239						S		TRAC	Pu239/240	3.21E+06		
BX107	Pu239/240	6/1/92	B08X71	1.6	0.0541	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.20E+06		
C112	Pu239/240	3/1/92	B08DW5	1.6	0.0541	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.20E+06		
C103	Pu239						S		TRAC	Pu239/240	3.17E+06		
BX107	Pu239/240	6/1/92	B08X97	1.6	0.0533	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	3.16E+06		
C110	Pu239/240	4/23/92			0.0518	uCi/g	S		RAW	Pu239/240	3.07E+06		
C110	Pu239/240	4/23/92	B08VK1	1.6	0.0518	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	3.07E+06		
S102	Pu	4/17/75		1.52	7.5E-07	g/g	S	Bottom Layer	RAW	Pu239/240	3.01E+06		
S102	Pu	4/29/75		1.52	7.5E-07	g/g	S	Crystals	RAW	Pu239/240	3.01E+06		
T112	Pu239						S		TRAC	Pu239/240	2.99E+06		
SX111	Pu239/240	8/1/75					G		Wastren	Pu239/240	2.97E+06		
BX110	Pu239						S		TRAC	Pu239/240	2.94E+06		
T102	Pu239/240	3/1/93	B08732	1.3166667	0.0596	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.90E+06		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TY106	Pu239/240	7/8/87	111C0000	1.31	0.0591	uCi/g	S	SOLID	RAW	Pu239/240	2.86E+06		
C109	Pu239						S		TRAC	Pu239/240	2.70E+06		
C203	Pu239						S		TRAC	Pu239/240	2.70E+06		
BX107	Pu239/240	6/1/92	B08X71	1.6	0.0449	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.66E+06		
T106	Pu239						S		TRAC	Pu239/240	2.61E+06		
U105	Pu	10/6/77	#968		0.00096	g/l	S	Solids	RAW	Pu239/240	2.53E+06		
U105	Pu	10/6/77	968		0.00096	gm/l	S	Solids	Braun	Pu239/240	2.53E+06		
T102	Pu239/240	3/1/93	B0B732	1.3166667	0.051	uCi/g	S	DUPLICATE RESULT	TCD	Pu239/240	2.48E+06		
BX110	Pu	2/14/76		1.71	5.41E-07	g/g	S	Crystals	RAW	Pu239/240	2.44E+06		
C202	Pu239						S		TRAC	Pu239/240	2.39E+06		
SX106	Pu	2/28/77		1.6	0.000853	g/l	S	Solids	RAW	Pu239/240	2.25E+06		
SX106	Pu	2/28/77	RAT-SX106-2	1.45	0.000853	gm/l	S	Supernate/Solids	Braun	Pu239/240	2.25E+06		
SX106	Pu	2/28/77	RAT-SX106-2	1.58	0.000853	gm/l	S	Supernate/Solids	Braun	Pu239/240	2.25E+06		
SX106	Pu	2/28/77	RAT-SX106-2	1.6	0.000853	gm/l	S	Supernate/Solids	Braun	Pu239/240	2.25E+06		
S111	Pu239						S		TRAC	Pu239/240	2.23E+06		
C107	Pu	9/26/77	510		0.00006	Ci/l	S		RAW	Pu239/240	2.22E+06		
SX113	Pu239						S		TRAC	Pu239/240	2.21E+06		
S109	Pu	12/8/76					K		Wastren	Pu239/240	2.19E+06		
S109	Pu	10/29/76		1.27	0.654	ug/g	S	Crystals	RAW	Pu239/240	2.19E+06		
T111	Pu239						S		TRAC	Pu239/240	2.16E+06		
BX107	Pu239/240	6/1/92	B08X97	1.6	0.0349	uCi/g	S	PRIMARY RESULT	TCD	Pu239/240	2.07E+06		
S109	Pu239/240	12/8/76					K		Wastren	Pu239/240	1.89E+06		
S102	Pu	4/17/75		1.3	5.2E-07	g/g	S	Crystals	RAW	Pu239/240	1.78E+06		
S102	Pu	4/29/75		1.3	5.2E-07	g/g	S	Crystals	RAW	Pu239/240	1.78E+06		
S102	Pu	4/29/75	RAT-S102-1	1.3	5.2E-07	gm/gm	S	Solids	Braun	Pu239/240	1.78E+06		
SX105	Pu239						S		TRAC	Pu239/240	1.75E+06		
A101	Pu	10/11/83	7898	1.64	0.000652	gm/l	R	Slurry	Braun	Pu239/240	1.72E+06		
A101	Pu	10/11/83	7898	1.6847	0.000652	gm/l	R	Slurry	Braun	Pu239/240	1.72E+06		
A101	Pu	1/3/84	7898		0.000652	g/L	R	Slurry	RAW	Pu239/240	1.72E+06		
A101	Pu	10/11/83					K		Wastren	Pu239/240	1.72E+06		
C103	Pu	5/1/75	T-4073	1.16	0.00241	g/gal	S	Solids	RAW	Pu239/240	1.68E+06		
S104	Pu239/240	8/1/92	B08S85	1.6	0.354	ug/g	S	PRIMARY RESULT	TCD	Pu239/240	1.49E+06		
S104	Pu239/240	8/2/92			0.354	ug/g	S		RAW	Pu239/240	1.49E+06		
BY104	Pu239/240	10/26/92	riser 10		0.025	uCi/g	S	wet solids	RAW	Pu239/240	1.48E+06		
BY104	Pu239/240	11/12/92	R-1775		0.025	uCi/gm	T	Crust	Braun	Pu239/240	1.48E+06		
A101	Pu239/240	10/11/83					K		Wastren	Pu239/240	1.48E+06		
SX106	Pu	2/28/77		1.58	0.000553	g/l	S	Solids	RAW	Pu239/240	1.46E+06		
U108	Pu239/240	8/14/75					K		Wastren	Pu239/240	1.45E+06		
TY105	Pu239/240	9/13/85					G		Wastren	Pu239/240	1.37E+06		
A101	Pu	11/10/80		1.85	0.000519	g/L	R		RAW	Pu239/240	1.37E+06		
A101	Pu	11/11/80	RAT-A101-5A	1.85	0.000519	gm/l	R	Slurry	Braun	Pu239/240	1.37E+06		
TY106	Pu	9/26/85					G		Wastren	Pu239/240	1.31E+06		
C102	Pu	1/21/88	E1XCOOXX		35.1	uCi/L	S		RAW	Pu239/240	1.30E+06		
S102	Pu	4/29/75		1.52	0.00049	g/L	S	Crystals	RAW	Pu239/240	1.29E+06		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S104	Pu239/240	8/1/92	B08S85	1.6	0.295	ug/g	S	DUPLICATE RESULT	TCD	Pu239/240	1.25E+06		
S104	Pu239/240	8/2/92			0.295	ug/g	S		RAW	Pu239/240	1.25E+06		
C106	Pu	9/15/75	T-8059	1.8	0.00174	gm/gal	S	Cruddy	RAW	Pu239/240	1.21E+06		
A101	Pu239	11/11/80	RAT-A101-8		31.8	uCi/l	R	Slurry	Braun	Pu239/240	1.18E+06		
BX104	Pu239						S		TRAC	Pu239/240	1.15E+06		
TX111	Pu239						S		TRAC	Pu239/240	1.14E+06		
TY106	Pu239/240	7/8/87	161C0000	1.43	0.0212	uCi/g	S	SOLID	RAW	Pu239/240	1.12E+06		
TY106	Pu239/240	9/26/85					G		Wastren	Pu239/240	1.12E+06		
B105	Pu239						S		TRAC	Pu239/240	1.04E+06		
U102	Pu	3/1/76		1.38	0.000387	g/l	S	Chunks	RAW	Pu239/240	1.02E+06		
U102	Pu	3/1/76	RAT-U102-1	1.27	0.000387	gm/l	S	Solids	Braun	Pu239/240	1.02E+06		
U102	Pu	3/1/76	RAT-U102-1	1.38	0.000387	gm/l	S	Solids	Braun	Pu239/240	1.02E+06		
U102	Pu	3/1/76	RAT-U102-1	1.6	0.000387	gm/l	S	Solids	Braun	Pu239/240	1.02E+06		
U102	Pu	3/1/76					G		Wastren	Pu239/240	1.02E+06		
S102	Pu239						S		TRAC	Pu239/240	1.00E+06		
Minimum Plot Limit: 1.00E+06 Bq/L													
U108	Pu239						S		TRAC	Pu239/240	9.69E+05		
S104	Pu239/240	8/1/92	B08S75	1.6	0.209	ug/g	S	DUPLICATE RESULT	TCD	Pu239/240	8.82E+05		
S104	Pu239/240	8/2/92			0.209	ug/g	S		RAW	Pu239/240	8.82E+05		
S105	Pu239						S		TRAC	Pu239/240	8.56E+05		
C201	Pu	12/4/78	T-3421	1.16	2.73E-07	g/g	S	Water soluble	RAW	Pu239/240	8.35E+05		
S104	Pu239/240	8/1/92	B08S75	1.6	0.185	ug/g	S	PRIMARY RESULT	TCD	Pu239/240	7.81E+05		
S104	Pu239/240	8/2/92			0.185	ug/g	S		RAW	Pu239/240	7.81E+05		
SX106	Pu239/240	4/18/78		1.33	1.88E-07	g/g	S	Solids(Water Soluble)	RAW	Pu239/240	6.60E+05		
B105	Pu	1/16/76					G		Wastren	Pu239/240	6.49E+05		
TX118	Pu	1/26/77	T-1205	1.31	0.000923	g/gal	S	amber	RAW	Pu239/240	6.43E+05		
S111	Pu239/240	8/25/78	1009#C	1.44	1.68E-07	g/g	S	Acid(KOH Fusion)	RAW	Pu239/240	6.38E+05		
U111	Pu239/240	8/14/75					G		Wastren	Pu239/240	6.03E+05		
S104	Pu239/240	8/1/92	B08S50	1.6	0.142	ug/g	S	DUPLICATE RESULT	TCD	Pu239/240	5.99E+05		
S104	Pu239/240	8/2/92			0.142	ug/g	S		RAW	Pu239/240	5.99E+05		
B111	Pu239						S		TRAC	Pu239/240	5.99E+05		
SX103	Pu	10/10/77					G		Wastren	Pu239/240	5.80E+05		
SX103	Pu	10/10/77	1104		0.00022	g/L	S	Soils	RAW	Pu239/240	5.80E+05		
SX103	Pu	10/10/77	1104	1.5	0.00022	gm/l	S	Solids	Braun	Pu239/240	5.80E+05		
SX103	Pu	10/10/77	1104	2	0.00022	gm/l	S	Solids	Braun	Pu239/240	5.80E+05		
S111	Pu239	8/25/78	1009-C	1.46	1.72E-07	gm/gm	S	Solids	Braun	Pu239/240	5.70E+05		
S111	Pu239	8/25/78	1009-C	1.44	1.72E-07	gm/gm	S	Solids	Braun	Pu239/240	5.63E+05		
B105	Pu239/240	1/16/76					K		Wastren	Pu239/240	5.59E+05		
TX118	Pu	8/5/74	7068C		0.00021	gm/l	S	Solids	Braun	Pu239/240	5.54E+05		
S104	Pu239/240	8/1/92	B08S50	1.6	0.129	ug/g	S	PRIMARY RESULT	TCD	Pu239/240	5.45E+05		
S104	Pu239/240	8/2/92			0.129	ug/g	S		RAW	Pu239/240	5.45E+05		
A101	Pu	11/10/80		1.65	0.000199	g/L	R	Slurry	RAW	Pu239/240	5.25E+05		
A101	Pu	11/10/80	RAT-A101-4A	1.65	0.000199	gm/l	R	Slurry	Braun	Pu239/240	5.25E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Single-Shell Tank Solids [Sketch ES-VAL-CR16]
 ASA Value: 4.4E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S111	Pu239	8/25/78	1003/1004-C	1.86	1.194E-07	gm/gm	S	Solids	Braun	Pu239/240	5.05E+05		
SX103	Pu239/240	10/10/77					G		Wastren	Pu239/240	5.00E+05		
TY102	Pu	10/1/79			1.15E-07	g/g	S	Water Insoluble	RAW	Pu239/240	4.85E+05		
S111	Pu239/240	8/25/78	003-C and 1004-	1.86	9.82E-08	g/g	S	Acid(KOH Fusion)	RAW	Pu239/240	4.82E+05		
U104	Pu	3/14/61	M-130	1.019	0.00069	gm/gal	S	Solids	Braun	Pu239/240	4.81E+05		
A101	Pu239	11/10/80	RAT-A101-6		12.2	uCi/l	R	Slurry	Braun	Pu239/240	4.51E+05		
A101	Pu239	11/10/80	RAT-A101-4A	1.65	12.2	uCi/l	R	Slurry	Braun	Pu239/240	4.51E+05		
B112	Pu239						S		TRAC	Pu239/240	4.13E+05		
B108	Pu239						S		TRAC	Pu239/240	4.07E+05		
BX111	Pu239						S		TRAC	Pu239/240	3.62E+05		
SX101	Pu	12/4/78	4523	1.52	8.97E-08	g/g	S	Acid Fusion	RAW	Pu239/240	3.60E+05		
S111	Pu	9/18/80					G		Wastren	Pu239/240	3.32E+05		
S111	Pu	9/18/80	RAT-S111-5		7.21E-08	gm/gm	S	Solids	Braun	Pu239/240	3.04E+05		
S106	Pu239						S		TRAC	Pu239/240	3.04E+05		
S111	Pu				7.05E-08	g/g	S	Water Insoluble	RAW	Pu239/240	2.98E+05		
SX105	Pu	12/12/75	T-377	1.5	4.16E-04	g/gal	S	Solids	RAW	Pu239/240	2.90E+05		
SX105	Pu	12/12/75	T-377	1.5	0.000416	gm/gal	S	Solids	Braun	Pu239/240	2.90E+05		
S111	Pu239/240	9/18/80					G		Wastren	Pu239/240	2.86E+05		
TX115	Pu239						S		TRAC	Pu239/240	2.80E+05		
BY111	Pu239						S		TRAC	Pu239/240	2.80E+05		
U103	Pu	12/4/78	3064	1.4	6.972E-08	gm/gm	S	Solids	Braun	Pu239/240	2.57E+05		
U103	Pu	12/4/78					G		Wastren	Pu239/240	2.57E+05		
U101	Pu239						S		TRAC	Pu239/240	2.48E+05		
U103	Pu	12/4/78	3064	1.4	6.57E-08	g/g	S	Crystals	RAW	Pu239/240	2.43E+05		
U103	Pu239/240	12/4/78					G		Wastren	Pu239/240	2.22E+05		
SX102	Pu239						S		TRAC	Pu239/240	2.20E+05		
SX104	Pu	12/5/75	T-375	1.49	0.000303	gm/gal	S	Solids	Braun	Pu239/240	2.11E+05		
SX104	Pu	12/5/75	T-375	1.49	0.000303	gm/gal	S		RAW	Pu239/240	2.11E+05		
B106	Pu239						S		TRAC	Pu239/240	1.98E+05		
S111	Pu239	8/25/78	1001-C	1.27	6.456E-08	gm/gm	S	Solids	Braun	Pu239/240	1.86E+05		
A101	Pu	11/10/80	RAT-A101-9A	1.58	0.0000567	gm/l	R	Slurry	Braun	Pu239/240	1.50E+05		
A101	Pu	11/10/80		1.58	0.0000567	g/L	R		RAW	Pu239/240	1.50E+05		
TY102	Pu239/240	6/19/87		1.88	0.00204	uCi/g	S	SOLID	RAW	Pu239/240	1.42E+05		
U111	Pu239						S		TRAC	Pu239/240	1.30E+05		
TY102	Pu	9/18/90			3.02E-08	g/g	S	Water Insoluble	RAW	Pu239/240	1.27E+05		
TX112	Pu239						S		TRAC	Pu239/240	1.24E+05		
SX105	Pu	10/4/74		1.71	0.0000424	g/l	S		RAW	Pu239/240	1.12E+05		
S111	Pu239/240	8/25/78	003-C and 1004-	1.86	2.12E-08	g/g	S	Water soluble	RAW	Pu239/240	1.04E+05		
T103	Pu239						S		TRAC	Pu239/240	9.15E+04		
TX108	Pu239						S		TRAC	Pu239/240	8.72E+04		
U104	Pu	3/14/61					G		Wastren	Pu239/240	8.36E+04		
S108	Pu	8/5/74	RAT-S108-1		1.87E-08	gm/gm	S	Solids	Braun	Pu239/240	7.89E+04		
S107	Pu	11/16/73	T-476	1.1592	0.0000282	g/l	S		RAW	Pu239/240	7.44E+04		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR17]
 ASA Value: 12.8E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 2.80E+08 Bq/L													22
Minimum Plot Limit: 1.00E+07 Bq/L													
TX105	Pu241						L		TRAC	Pu241	8.55E+01	4.36E+01	
TX109	Pu241						L		TRAC	Pu241	5.66E+01	2.89E+01	
SX106	Pu241						L		TRAC	Pu241	2.57E+01	1.31E+01	
B102	Pu241						L		TRAC	Pu241	1.95E+01	9.98E+00	
TX110	Pu241						L		TRAC	Pu241	1.69E+01	8.62E+00	
B108	Pu241						L		TRAC	Pu241	1.35E+01	6.88E+00	
B103	Pu241						L		TRAC	Pu241	1.27E+01	6.47E+00	
U107	Pu241						L		TRAC	Pu241	1.14E+01	5.84E+00	
U111	Pu241						L		TRAC	Pu241	9.11E+00	4.65E+00	
B106	Pu241						L		TRAC	Pu241	8.79E+00	4.49E+00	
AX103	Pu241						L		TRAC	Pu241	7.87E+00	4.02E+00	
B202	Pu241						L		TRAC	Pu241	5.55E+00	2.83E+00	
S111	Pu241						L		TRAC	Pu241	3.64E+00	1.86E+00	
S110	Pu241						L		TRAC	Pu241	3.52E+00	1.80E+00	
BX110	Pu241						L		TRAC	Pu241	2.56E+00	1.31E+00	
TX111	Pu241						L		TRAC	Pu241	2.47E+00	1.26E+00	
BX111	Pu241						L		TRAC	Pu241	2.04E+00	1.04E+00	
BY109	Pu241						L		TRAC	Pu241	1.94E+00	9.90E-01	
BY101	Pu241						L		TRAC	Pu241	1.22E+00	6.24E-01	
BY108	Pu241						L		TRAC	Pu241	1.08E+00	5.53E-01	
C107	Pu241						L		TRAC	Pu241	9.03E-01	4.61E-01	
SX105	Pu241						L		TRAC	Pu241	8.60E-01	4.39E-01	
BY104	Pu241						L		TRAC	Pu241	8.58E-01	4.38E-01	
BY106	Pu241						L		TRAC	Pu241	8.21E-01	4.19E-01	
S106	Pu241						L		TRAC	Pu241	7.84E-01	4.01E-01	
BY105	Pu241						L		TRAC	Pu241	7.24E-01	3.70E-01	
BY110	Pu241						L		TRAC	Pu241	7.24E-01	3.70E-01	
BY112	Pu241						L		TRAC	Pu241	7.00E-01	3.58E-01	
BY111	Pu241						L		TRAC	Pu241	6.92E-01	3.53E-01	
BY107	Pu241						L		TRAC	Pu241	6.01E-01	3.07E-01	
S108	Pu241						L		TRAC	Pu241	5.87E-01	3.00E-01	
TY103	Pu241						L		TRAC	Pu241	5.78E-01	2.95E-01	
TY102	Pu241						L		TRAC	Pu241	4.65E-01	2.37E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Liquids [Sketch ES-VAL-CR17]
 ASA Value: 12.8E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S101	Pu241						L		TRAC	Pu241	2.33E-01	1.19E-01	
T101	Pu241						L		TRAC	Pu241	2.29E-01	1.17E-01	
SX104	Pu241						L		TRAC	Pu241	1.90E-01	9.71E-02	
T103	Pu241						L		TRAC	Pu241	1.89E-01	9.66E-02	
B109	Pu241						L		TRAC	Pu241	1.59E-01	8.10E-02	
TX103	Pu241						L		TRAC	Pu241	9.94E-02	5.08E-02	
T102	Pu241						L		TRAC	Pu241	9.88E-02	5.05E-02	
A103	Pu241						L		TRAC	Pu241	5.02E-02	2.56E-02	
TX112	Pu241						L		TRAC	Pu241	4.54E-02	2.32E-02	
U102	Pu241						L		TRAC	Pu241	3.29E-02	1.68E-02	
TX102	Pu241						L		TRAC	Pu241	4.20E-03	2.14E-03	
A106	Pu241						L		TRAC	Pu241	1.26E-07	6.42E-08	
B101	Pu241						L		TRAC	Pu241	1.39E-08	7.10E-09	
S107	Pu241						L		TRAC	Pu241	4.84E-09	2.47E-09	
TX104	Pu241						L		TRAC	Pu241	4.69E-09	2.40E-09	
U106	Pu241						L		TRAC	Pu241	2.91E-09	1.48E-09	
C104	Pu241						L		TRAC	Pu241	1.39E-09	7.11E-10	
S102	Pu241						L		TRAC	Pu241	2.67E-10	1.37E-10	
SX101	Pu241						L		TRAC	Pu241	4.59E-11	2.34E-11	
AX101	Pu241						L		TRAC	Pu241	9.22E-12	4.71E-12	
BX101	Pu241						L		TRAC	Pu241	3.33E-15	1.70E-15	
AX102	Pu241						L		TRAC	Pu241	9.94E-16	5.07E-16	
C102	Pu241						L		TRAC	Pu241	1.30E-17	6.66E-18	
TX107	Pu241						L		TRAC	Pu241	1.07E-17	5.46E-18	
U104	Pu241						L		TRAC	Pu241	4.26E-19	2.18E-19	
TY106	Pu241						L		TRAC	Pu241	2.34E-19	1.20E-19	
C110	Pu241						L		TRAC	Pu241	4.03E-21	2.06E-21	
C203	Pu241						L		TRAC	Pu241	4.52E-23	2.31E-23	
T107	Pu241						L		TRAC	Pu241	9.37E-27	4.79E-27	
C202	Pu241						L		TRAC	Pu241	4.06E-27	2.07E-27	
C106	Pu241						L		TRAC	Pu241	2.17E-28	1.11E-28	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR18]
 ASA Value: 3.50E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AX102	Pu241						S		TRAC	Pu241		6.15E+09	4
ASA Value: 3.50E+09 Bq/L													22
AX101	Pu241						S		TRAC	Pu241		2.80E+09	
B101	Pu241						S		TRAC	Pu241		2.61E+09	
B202	Pu241						S		TRAC	Pu241		2.50E+09	
B103	Pu241						S		TRAC	Pu241		1.82E+09	
AX104	Pu241						S		TRAC	Pu241		1.55E+09	
BX101	Pu241						S		TRAC	Pu241		1.10E+09	
A106	Pu241						S		TRAC	Pu241		1.04E+09	
A103	Pu241						S		TRAC	Pu241		9.95E+08	
B102	Pu241						S		TRAC	Pu241		7.34E+08	
C102	Pu241						S		TRAC	Pu241		3.31E+08	
C110	Pu241						S		TRAC	Pu241		2.42E+08	
TY104	Pu241						S		TRAC	Pu241		2.17E+08	
C104	Pu241						S		TRAC	Pu241		2.04E+08	
A101	Pu241						S		TRAC	Pu241		1.59E+08	
C107	Pu241						S		TRAC	Pu241		1.29E+08	
T203	Pu241						S		TRAC	Pu241		1.27E+08	
B204	Pu241						S		TRAC	Pu241		1.21E+08	
C111	Pu241						S		TRAC	Pu241		1.12E+08	
C106	Pu241						S		TRAC	Pu241		1.08E+08	
C112	Pu241						S		TRAC	Pu241		9.78E+07	
BY110	Pu241						S		TRAC	Pu241		8.89E+07	
C105	Pu241						S		TRAC	Pu241		8.69E+07	
TY103	Pu241						S		TRAC	Pu241		8.01E+07	
S107	Pu241						S		TRAC	Pu241		7.87E+07	
T104	Pu241						S		TRAC	Pu241		6.63E+07	
S108	Pu241						S		TRAC	Pu241		4.38E+07	
A104	Pu241						S		TRAC	Pu241		3.96E+07	
TY101	Pu241						S		TRAC	Pu241		3.51E+07	
TY105	Pu241						S		TRAC	Pu241		3.47E+07	
C101	Pu241						S		TRAC	Pu241		3.39E+07	
C108	Pu241						S		TRAC	Pu241		2.68E+07	
BX102	Pu241						S		TRAC	Pu241		2.47E+07	
BY108	Pu241						S		TRAC	Pu241		2.43E+07	
BX109	Pu241						S		TRAC	Pu241		2.37E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR18]
 ASA Value: 3.50E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SX111	Pu241						S		TRAC	Pu241		2.19E+07	
TX109	Pu241						S		TRAC	Pu241		2.19E+07	
SX112	Pu241						S		TRAC	Pu241		2.04E+07	
BY103	Pu241						S		TRAC	Pu241		1.94E+07	
A102	Pu241						S		TRAC	Pu241		1.91E+07	
SX107	Pu241						S		TRAC	Pu241		1.75E+07	
BY104	Pu241						S		TRAC	Pu241		1.74E+07	
U110	Pu241						S		TRAC	Pu241		1.72E+07	
BY107	Pu241						S		TRAC	Pu241		1.70E+07	
TX118	Pu241						S		TRAC	Pu241		1.40E+07	
SX114	Pu241						S		TRAC	Pu241		1.33E+07	
S110	Pu241						S		TRAC	Pu241		1.26E+07	
T105	Pu241						S		TRAC	Pu241		1.11E+07	
BY105	Pu241						S		TRAC	Pu241		1.10E+07	
BX107	Pu241						S		TRAC	Pu241		1.08E+07	
BY106	Pu241						S		TRAC	Pu241		1.05E+07	
SX108	Pu241						S		TRAC	Pu241		1.00E+07	
Minimum Plot Limit: 1.00E+07 Bq/L													
S101	Pu241						S		TRAC	Pu241		9.92E+06	
B110	Pu241						S		TRAC	Pu241		8.95E+06	
SX110	Pu241						S		TRAC	Pu241		8.86E+06	
SX115	Pu241						S		TRAC	Pu241		8.44E+06	
C103	Pu241						S		TRAC	Pu241		8.23E+06	
S104	Pu241						S		TRAC	Pu241		6.76E+06	
T107	Pu241						S		TRAC	Pu241		6.59E+06	
SX101	Pu241						S		TRAC	Pu241		6.11E+06	
SX109	Pu241						S		TRAC	Pu241		6.06E+06	
TX114	Pu241						S		TRAC	Pu241		5.62E+06	
TX110	Pu241						S		TRAC	Pu241		4.88E+06	
SX104	Pu241						S		TRAC	Pu241		4.23E+06	
TY102	Pu241						S		TRAC	Pu241		3.03E+06	
BX104	Pu241						S		TRAC	Pu241		2.96E+06	
T112	Pu241						S		TRAC	Pu241		2.94E+06	
TY106	Pu241						S		TRAC	Pu241		2.83E+06	
BX112	Pu241						S		TRAC	Pu241		2.65E+06	
U108	Pu241						S		TRAC	Pu241		2.62E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR18]
 ASA Value: 3.50E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
S111	Pu241						S		TRAC	Pu241		2.17E+06	
SX113	Pu241						S		TRAC	Pu241		2.12E+06	
T106	Pu241						S		TRAC	Pu241		1.92E+06	
TX113	Pu241						S		TRAC	Pu241		1.77E+06	
SX105	Pu241						S		TRAC	Pu241		1.76E+06	
BX108	Pu241						S		TRAC	Pu241		1.60E+06	
T111	Pu241						S		TRAC	Pu241		1.51E+06	
T108	Pu241						S		TRAC	Pu241		1.24E+06	
B107	Pu241						S		TRAC	Pu241		1.18E+06	
S102	Pu241						S		TRAC	Pu241		1.06E+06	
BX110	Pu241						S		TRAC	Pu241		8.68E+05	
S105	Pu241						S		TRAC	Pu241		8.21E+05	
TX111	Pu241						S		TRAC	Pu241		7.41E+05	
T110	Pu241						S		TRAC	Pu241		6.14E+05	
B104	Pu241						S		TRAC	Pu241		5.38E+05	
B111	Pu241						S		TRAC	Pu241		3.74E+05	
U101	Pu241						S		TRAC	Pu241		3.43E+05	
S106	Pu241						S		TRAC	Pu241		2.92E+05	
C203	Pu241						S		TRAC	Pu241		2.83E+05	
C109	Pu241						S		TRAC	Pu241		2.65E+05	
B112	Pu241						S		TRAC	Pu241		2.51E+05	
C202	Pu241						S		TRAC	Pu241		2.50E+05	
BY111	Pu241						S		TRAC	Pu241		2.49E+05	
SX102	Pu241						S		TRAC	Pu241		2.24E+05	
B105	Pu241						S		TRAC	Pu241		1.67E+05	
TX115	Pu241						S		TRAC	Pu241		1.39E+05	
TX108	Pu241						S		TRAC	Pu241		1.37E+05	
U111	Pu241						S		TRAC	Pu241		1.11E+05	
BX111	Pu241						S		TRAC	Pu241		1.07E+05	
S109	Pu241						S		TRAC	Pu241		7.46E+04	
T103	Pu241						S		TRAC	Pu241		5.39E+04	
B108	Pu241						S		TRAC	Pu241		3.89E+04	
TX112	Pu241						S		TRAC	Pu241		3.39E+04	
B106	Pu241						S		TRAC	Pu241		3.18E+04	
S103	Pu241						S		TRAC	Pu241		3.02E+04	
U204	Pu241	12/4/78					G	Sludge	Wastren	Pu241	4.57E+04	2.11E+04	

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ICF KH
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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Single-Shell Tank Solids [Sketch ES-VAL-CR18]
 ASA Value: 3.50E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SX103	Pu241						S		TRAC	Pu241		2.08E+04	
U112	Pu241						S		TRAC	Pu241		1.65E+04	
S112	Pu241						S		TRAC	Pu241		6.95E+03	
B109	Pu241						S		TRAC	Pu241		6.93E+03	
T101	Pu241						S		TRAC	Pu241		1.35E+03	
BY101	Pu241						S		TRAC	Pu241		1.28E+03	
U107	Pu241						S		TRAC	Pu241		1.54E+02	
BY102	Pu241						S		TRAC	Pu241		4.11E+01	
BY112	Pu241						S		TRAC	Pu241		3.44E+01	
TX105	Pu241						S		TRAC	Pu241		3.13E+01	
BX106	Pu241						S		TRAC	Pu241		2.29E+01	
A105	Pu241						S		TRAC	Pu241		2.23E+01	
BX105	Pu241						S		TRAC	Pu241		2.05E+01	
BX103	Pu241						S		TRAC	Pu241		1.74E+01	
BY109	Pu241						S		TRAC	Pu241		8.44E+00	
TX101	Pu241						S		TRAC	Pu241		3.66E+00	
TX102	Pu241						S		TRAC	Pu241		2.20E-01	
TX106	Pu241						S		TRAC	Pu241		1.29E-01	
U103	Pu241						S		TRAC	Pu241		2.39E-02	
U202	Pu241						S		TRAC	Pu241		6.55E-03	
U203	Pu241						S		TRAC	Pu241		6.03E-03	
U201	Pu241						S		TRAC	Pu241		4.11E-03	
TX117	Pu241						S		TRAC	Pu241		4.65E-04	
TX116	Pu241						S		TRAC	Pu241		2.39E-05	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C106	Sr90	4/1/90	1		8150000	uCi/kg	L		RAW	Sr89/90	3.32E+11	2.96E+11	2
U109	Sr89/90	11/12/75					P	Supernate	Wastren	Sr89/90	1.17E+11	7.39E+10	6
SX101	Sr90	4/26/89	R4884	1.11	2.2	Ci/L	L	Liquid	RAW	Sr89/90	8.14E+10	7.10E+10	6
SX101	Sr89/90	4/26/89					L	Drainable Liquid	Wastren	Sr89/90	8.14E+10	7.10E+10	6
B108	Sr90						L		TRAC	Sr89/90	6.08E+10	4.35E+10	4
TX118	Sr90	1/19/76	T-1625	1.277	3540000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.46E+10	2.20E+10	7
BX110	Sr90						L		TRAC	Sr89/90	1.81E+10	1.29E+10	4
ASA Value: 1.11E+10 Bq/L													
C106	Sr90	1/24/77		1.21	460000	uCi/L	P	supernatant	RAW	Sr89/90	1.70E+10	1.11E+10	*
U111	Sr89/90	5/25/76	9762	1.25	1750000	uCi/gal	P	Supernate	Braun	Sr89/90	1.71E+10	1.09E+10	
C106	Sr90	10/10/74		1.21	460000	uCi/L	P	supernatant	RAW	Sr89/90	1.70E+10	1.05E+10	
C106	Sr89/90	10/10/74	RAT-C106-2	1.21	460000	uCi/l	P	Supernate	Braun	Sr89/90	1.70E+10	1.05E+10	
BX111	Sr90						L		TRAC	Sr89/90	1.43E+10	1.03E+10	
BY109	Sr90						L		TRAC	Sr89/90	1.36E+10	9.74E+09	
TX109	Sr90	9/29/75	T-8405	1.365	1510000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	1.48E+10	9.29E+09	
TX109	Sr89/90	9/29/75	T-8405	1.365	1510000	uCi/gal	P	Supernate	Braun	Sr89/90	1.48E+10	9.29E+09	
TX109	Sr90	10/6/75	T-8575	1.375	1440000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	1.41E+10	8.87E+09	
TX109	Sr89/90	10/6/75	8575	1.375	1440000	uCi/gal	P	Supernate	Braun	Sr89/90	1.41E+10	8.87E+09	
S110	Sr90						L		TRAC	Sr89/90	1.16E+10	8.28E+09	
S111	Sr90						L		TRAC	Sr89/90	1.13E+10	8.06E+09	
BY101	Sr90						L		TRAC	Sr89/90	1.01E+10	7.19E+09	
A101	Sr90	10/14/74	T-8936	1.289	999000	uCi/gal	U	Unknown	RAW	Sr89/90	9.76E+09	6.01E+09	
A101	Sr89/90	10/14/74	T-8936	1.289	999000	uCi/gal	P	Supernate	Braun	Sr89/90	9.76E+09	6.01E+09	
TX109	Sr90	8/18/75	T-7179	1.2738	954000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	9.32E+09	5.86E+09	
TX109	Sr89/90	8/18/75	T-7179	1.27	954000	uCi/gal	P	Supernate	Braun	Sr89/90	9.32E+09	5.86E+09	
TX109	Sr90	9/15/75	T-7980	1.334	921000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	9.00E+09	5.66E+09	
TX109	Sr90	8/26/75	T-7446	1.262	903000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	8.83E+09	5.55E+09	
TX109	Sr89/90	8/26/75	T-7446	1.26	903000	uCi/gal	P	Supernate	Braun	Sr89/90	8.83E+09	5.55E+09	
C106	Sr90	3/1/76	7	1.14	233025	uCi/L	L		RAW	Sr89/90	8.62E+09	5.48E+09	
AX102	Sr90	11/14/88	RAT-AX102-3		170000	uCi/l	P	Supernate	Braun	Sr89/90	6.29E+09	5.43E+09	
AX102	Sr90	11/14/88			170000	uCi/L	P	Supernatant	RAW	Sr89/90	6.29E+09	5.43E+09	
AX102	Sr89/90	11/14/88					P	Supernate	Wastren	Sr89/90	6.29E+09	5.43E+09	
C106	Sr90	9/8/75	T-7808	1.14	882000	uCi/gal	O	Other	RAW	Sr89/90	8.62E+09	5.42E+09	
C106	Sr89/90	9/8/75	T-7808	1.14	882000	uCi/gal	P	Supernate	Braun	Sr89/90	8.62E+09	5.42E+09	
TX118	Sr90	9/26/75	T-8312		742000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	7.25E+09	4.57E+09	
TX118	Sr89/90	9/26/75	T-8312		742000	uCi/gal	P	Supernate	Braun	Sr89/90	7.25E+09	4.57E+09	
TX118	Sr90	9/8/75	T-7817	1.1586	713000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	6.97E+09	4.38E+09	
TX118	Sr89/90	9/8/75	T-7817	1.16	713000	uCi/gal	P	Supernate	Braun	Sr89/90	6.97E+09	4.38E+09	
BY110	Sr90						L		TRAC	Sr89/90	6.13E+09	4.38E+09	
BY104	Sr90						L		TRAC	Sr89/90	6.06E+09	4.33E+09	
TX118	Sr90	12/15/75	T-681	1.308	693000	uCi/gal	O		RAW	Sr89/90	6.77E+09	4.29E+09	
TX118	Sr89/90	12/15/75	T-681	1.31	693000	uCi/gal	P	Supernate	Braun	Sr89/90	6.77E+09	4.29E+09	
TX107	Sr90	8/26/75	T-7445		674000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	6.59E+09	4.14E+09	
TX107	Sr89/90	8/26/75	T-7445		674000	uCi/gal	P	Supernate	Braun	Sr89/90	6.59E+09	4.14E+09	
BY106	Sr90						L		TRAC	Sr89/90	5.76E+09	4.12E+09	
BY111	Sr90						L		TRAC	Sr89/90	5.67E+09	4.06E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
C104	Sr90	10/6/75	T-8583	1.227	634000	uCi/gal	O		RAW	Sr89/90	6.20E+09	3.90E+09	
C104	Sr89/90	10/6/75	T-8583	1.227	634000	uCi/gal	P	Supernate	Braun	Sr89/90	6.20E+09	3.90E+09	
TX118	Sr90	9/2/75	T-7617	1.2367	630000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	6.16E+09	3.87E+09	
TX118	Sr89/90	9/2/75	T-7617	1.24	630000	uCi/gal	P	Supernate	Braun	Sr89/90	6.16E+09	3.87E+09	
SX106	Sr90	2/28/77		1.45	151000	uCi/L	P	Supernatant	RAW	Sr89/90	5.59E+09	3.64E+09	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.45	151000	uCi/l	P	Supernate	Braun	Sr89/90	5.59E+09	3.64E+09	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.58	151000	uCi/l	P	Supernate	Braun	Sr89/90	5.59E+09	3.64E+09	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.6	151000	uCi/l	P	Supernate	Braun	Sr89/90	5.59E+09	3.64E+09	
TX109	Sr90	12/1/75	T-268	1.375	583000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.70E+09	3.60E+09	
TX109	Sr89/90	12/1/75	T-268	1.38	583000	uCi/gal	P	Supernate	Braun	Sr89/90	5.70E+09	3.60E+09	
TX101	Sr90	7/24/75	T-6426	1.168	585000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.72E+09	3.58E+09	
BY112	Sr90						L		TRAC	Sr89/90	4.93E+09	3.53E+09	
SX106	Sr89/90	2/25/77	RAT-SX106-1	1.458	145000	uCi/l	P	Supernate	Braun	Sr89/90	5.37E+09	3.49E+09	
C106	Sr90	9/1/80	4		133000	uCi/L	O		RAW	Sr89/90	4.92E+09	3.49E+09	
BY105	Sr90						L		TRAC	Sr89/90	4.84E+09	3.46E+09	
TX107	Sr90	9/2/75	T-7616		535000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.23E+09	3.29E+09	
TX107	Sr89/90	9/2/75	T-7616		535000	uCi/gal	P	Supernate	Braun	Sr89/90	5.23E+09	3.29E+09	
TX109	Sr90	9/8/75	T-7816	1.3249	534000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.22E+09	3.28E+09	
TX109	Sr89/90	9/8/75	T-7816	1.32	534000	uCi/gal	P	Supernate	Braun	Sr89/90	5.22E+09	3.28E+09	
TX109	Sr90	11/19/75	T-9880	1.382	526000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.14E+09	3.25E+09	
TX109	Sr89/90	11/19/75	T-9880	1.38	526000	uCi/gal	P	Supernate	Braun	Sr89/90	5.14E+09	3.25E+09	
TX107	Sr90	8/18/75	T-7178		528000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	5.16E+09	3.24E+09	
TX107	Sr89/90	8/18/75	T-7178		528000	uCi/gal	P	Supernate	Braun	Sr89/90	5.16E+09	3.24E+09	
TX107	Sr89/90	8/18/75					P	Supernate	Wastren	Sr89/90	5.16E+09	3.24E+09	
A103	Sr89/90	1/24/77	T-89		503000	uCi/gal	P	Supernate	Braun	Sr89/90	4.92E+09	3.20E+09	
TX109	Sr90	11/24/75	T-89	1.385	503000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.92E+09	3.11E+09	
TX109	Sr89/90	11/24/75	T-89	1.39	503000	uCi/gal	P	Supernate	Braun	Sr89/90	4.92E+09	3.11E+09	
TX118	Sr90	10/27/75	T-9252	1.25	501000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.90E+09	3.09E+09	
TX118	Sr89/90	10/27/75	T-9252	1.25	501000	uCi/gal	P	Supernate	Braun	Sr89/90	4.90E+09	3.09E+09	
SX106	Sr90						L		TRAC	Sr89/90	4.27E+09	3.05E+09	
TX118	Sr90	12/28/75	T-1036	1.178	473000	uCi/gal	O		RAW	Sr89/90	4.62E+09	2.93E+09	
TX118	Sr89/90	12/28/75	T-1036	1.18	473000	uCi/gal	P	Supernate	Braun	Sr89/90	4.62E+09	2.93E+09	
A102	Sr90	8/19/75	T-7252	1.087	473000	uCi/gal	L	no solids	RAW	Sr89/90	4.62E+09	2.90E+09	
A102	Sr89/90	8/19/75	T-7252	1.087	473000	uCi/gal	P	Supernate	Braun	Sr89/90	4.62E+09	2.90E+09	
BY107	Sr90						L		TRAC	Sr89/90	4.04E+09	2.89E+09	
TX109	Sr90	10/18/75	T-8984	1.371	466000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.55E+09	2.87E+09	
TX109	Sr89/90	10/18/75	T-8984	1.37	466000	uCi/gal	P	Supernate	Braun	Sr89/90	4.55E+09	2.87E+09	
TX109	Sr90						L		TRAC	Sr89/90	3.98E+09	2.85E+09	
TX109	Sr90	12/15/75	T-680	1.42	457000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.47E+09	2.83E+09	
TX109	Sr89/90	12/15/75	T-680	1.42	457000	uCi/gal	P	Supernate	Braun	Sr89/90	4.47E+09	2.83E+09	
TX118	Sr90	11/24/75	T-87	1.255	455000	uCi/gal	O		RAW	Sr89/90	4.45E+09	2.81E+09	
TX118	Sr89/90	11/24/75	T-87	1.255	455000	uCi/gal	P	Supernate	Braun	Sr89/90	4.45E+09	2.81E+09	
TX111	Sr90	10/11/75	T-9628	1.328	435000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.25E+09	2.68E+09	
TX109	Sr90	12/28/75	T-1035	1.398	428000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.18E+09	2.65E+09	
TX109	Sr89/90	12/28/75	T-1035	1.398	428000	uCi/gal	P	Supernate	Braun	Sr89/90	4.18E+09	2.65E+09	
TX118	Sr89/90	12/1/75	T-267	1.23	424000	uCi/gal	P	Supernate	Braun	Sr89/90	4.14E+09	2.62E+09	
TX118	Sr89/90	9/18/75	T-7177	1.12	424000	uCi/gal	P	Supernate	Braun	Sr89/90	4.14E+09	2.61E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information							Radionuclide Information						
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	
					Value	Unit						Decayed	ID
TX118	Sr90	8/18/75	T-7177	1.1225	424000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.14E+09	2.60E+09	
SX106	Sr90	4/18/78		1.37	105000	uCi/L	P	Supernatant	RAW	Sr89/90	3.89E+09	2.60E+09	
SX106	Sr89/90	4/18/78	8301	1.33	105000	uCi/l	P	Supernate	Braun	Sr89/90	3.89E+09	2.60E+09	
SX106	Sr89/90	4/18/78	8301	1.37	105000	uCi/l	P	Supernate	Braun	Sr89/90	3.89E+09	2.60E+09	
TX109	Sr90	9/2/75	T-7615	1.1263	416000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	4.07E+09	2.56E+09	
TX109	Sr89/90	9/2/75	T-7615	1.13	416000	uCi/gal	P	Supernate	Braun	Sr89/90	4.07E+09	2.56E+09	
TX118	Sr90	1/14/76	T-1451	1.289	410000	uCi/gal	O		RAW	Sr89/90	4.01E+09	2.54E+09	
TX118	Sr89/90	1/14/76	T-1451	1.29	410000	uCi/gal	P	Supernate	Braun	Sr89/90	4.01E+09	2.54E+09	
C103	Sr89/90	5/1/75	T-4073	1.16	412000	uCi/gal	P	Supernate	Braun	Sr89/90	4.03E+09	2.51E+09	
TX109	Sr90	1/14/76	T-1420	1.413	404000	uCi/gal	O		RAW	Sr89/90	3.95E+09	2.50E+09	
TX109	Sr89/90	1/14/76	T-1420	1.41	404000	uCi/gal	P	Supernate	Braun	Sr89/90	3.95E+09	2.50E+09	
C104	Sr89/90	12/1/75	T-225	1.164	404000	uCi/gal	P	Supernate	Braun	Sr89/90	3.95E+09	2.50E+09	
TX109	Sr90	12/22/75	T-863	1.351	403000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.94E+09	2.49E+09	
TX109	Sr89/90	12/22/75	T-863	1.35	403000	uCi/gal	P	Supernate	Braun	Sr89/90	3.94E+09	2.49E+09	
TX118	Sr90	8/11/75	T-6959	1.1653	405000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.96E+09	2.48E+09	
TX118	Sr89/90	8/11/75	T-6959	1.1653	405000	uCi/gal	P	Supernate	Braun	Sr89/90	3.96E+09	2.48E+09	
TX107	Sr90	9/8/75	T-7815		397000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.88E+09	2.44E+09	
TX107	Sr89/90	9/8/75	T-7815		397000	uCi/gal	P	Supernate	Braun	Sr89/90	3.88E+09	2.44E+09	
TX118	Sr90	6/9/75	T-5253	1.08	397000	uCi/gal	L		RAW	Sr89/90	3.88E+09	2.43E+09	
TX118	Sr89/90	6/9/75	T-5253	1.08	397000	uCi/gal	P	Supernate	Braun	Sr89/90	3.88E+09	2.43E+09	
C104	Sr89/90	12/18/75	T-769	1.16	99700	uCi/l	P	Supernate	Braun	Sr89/90	3.69E+09	2.34E+09	
TX109	Sr90	11/10/75	T-9627	1.397	378000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.69E+09	2.33E+09	
TX109	Sr89/90	10/10/75	T-9627	1.4	378000	uCi/gal	P	Supernate	Braun	Sr89/90	3.69E+09	2.33E+09	
A101	Sr90	1/3/84	7898		81100	uCi/L	P	Supernatant	RAW	Sr89/90	3.00E+09	2.30E+09	
A101	Sr90	10/11/83	7898	1.64	81100	uCi/l	P	Supernate	Braun	Sr89/90	3.00E+09	2.29E+09	
A101	Sr90	10/11/83	7898	1.6847	81100	uCi/l	P	Supernate	Braun	Sr89/90	3.00E+09	2.29E+09	
TX109	Sr90	2/2/76	T-2034	1.396	365000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.57E+09	2.27E+09	
TX109	Sr90	2/17/76	T-2442	1.39	364000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.56E+09	2.26E+09	
TX109	Sr90	4/5/76	T-4007	1.376	361000	uCi/gal	O		RAW	Sr89/90	3.53E+09	2.25E+09	
TX109	Sr89/90	4/5/76	T-4007	1.376	361000	uCi/gal	P	Supernate	Braun	Sr89/90	3.53E+09	2.25E+09	
TX109	Sr90	11/3/75	T-9413	1.395	360000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.52E+09	2.22E+09	
TX109	Sr89/90	11/3/75	T-9413	1.4	360000	uCi/gal	P	Supernate	Braun	Sr89/90	3.52E+09	2.22E+09	
TX109	Sr89/90	2/2/76	T-2034	1.386	355000	uCi/gal	P	Supernate	Braun	Sr89/90	3.47E+09	2.20E+09	
TX118	Sr89/90	1/19/76	T-1625	1.28	354000	uCi/gal	P	Supernate	Braun	Sr89/90	3.46E+09	2.20E+09	
TX118	Sr89/90	12/22/75	T-864	1.31	354000	uCi/gal	P	Supernate	Braun	Sr89/90	3.46E+09	2.19E+09	
TX109	Sr90	1/5/76	T-1247	1.39	340000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.32E+09	2.11E+09	
TX109	Sr89/90	1/5/76	T-1247	1.39	340000	uCi/gal	P	Supernate	Braun	Sr89/90	3.32E+09	2.11E+09	
TX118	Sr90	11/10/75	T-9626	1.272	341000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.33E+09	2.10E+09	
TX118	Sr89/90	11/1/75	T-9626	1.27	341000	uCi/gal	P	Supernate	Braun	Sr89/90	3.33E+09	2.10E+09	
TX118	Sr89/90	1/26/76	T-1809	1.296	339000	uCi/gal	P	Supernate	Braun	Sr89/90	3.31E+09	2.10E+09	
TX109	Sr90	1/19/76	T-1626	1.297	338000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.30E+09	2.10E+09	
TX109	Sr89/90	1/19/76	T-1626	1.297	338000	uCi/gal	P	Supernate	Braun	Sr89/90	3.30E+09	2.10E+09	
TX109	Sr90	2/23/76	T-2653	1.432	331000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.24E+09	2.06E+09	
TX118	Sr90	1/26/75	T-1809	1.296	339000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.31E+09	2.05E+09	
TX109	Sr90	2/11/76	T-2257	1.444	330000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.23E+09	2.05E+09	
TX118	Sr90	9/26/75	T-8311		333000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.25E+09	2.05E+09	
TX118	Sr89/90	9/26/75	T-8311		333000	uCi/gal	P	Supernate	Braun	Sr89/90	3.25E+09	2.05E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
TX118	Sr90	7/21/75	T-6309	1.16	334000	uCi/gal	U		RAW	Sr89/90	3.26E+09	2.05E+09	
TX118	Sr89/90	7/21/75	T-6309	1.16	334000	uCi/gal	P	Supernate	Braun	Sr89/90	3.26E+09	2.05E+09	
TX118	Sr90	11/19/75	T-9878	1.195	329000	uCi/gal	O		RAW	Sr89/90	3.22E+09	2.03E+09	
TX118	Sr89/90	11/19/75	T-9878	1.195	329000	uCi/gal	P	Supernate	Braun	Sr89/90	3.22E+09	2.03E+09	
TX118	Sr90	2/11/76	T-2258	1.373	325000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.18E+09	2.02E+09	
TX118	Sr89/90	2/11/76	T-2258	1.37	325000	uCi/gal	P	Supernate	Braun	Sr89/90	3.18E+09	2.02E+09	
S101	Sr90						L		TRAC	Sr89/90	2.77E+09	1.98E+09	
TX118	Sr89/90	9/29/75	T-8404	1.229	308000	uCi/gal	P	Supernate	Braun	Sr89/90	3.01E+09	1.90E+09	
TX109	Sr89/90	1/26/76	T-1810	1.316	305000	uCi/gal	P	Supernate	Braun	Sr89/90	2.98E+09	1.89E+09	
SX104	Sr90						L		TRAC	Sr89/90	2.64E+09	1.89E+09	
TX118	Sr90	1/5/76	T-1246	1.339	304000	uCi/gal	O		RAW	Sr89/90	2.97E+09	1.88E+09	
TX118	Sr89/90	1/5/76	T-1246	1.34	304000	uCi/gal	P	Supernate	Braun	Sr89/90	2.97E+09	1.88E+09	
SX105	Sr90						L		TRAC	Sr89/90	2.57E+09	1.83E+09	
TX104	Sr90	4/19/76	T-4391	1.4	293000	uCi/gal	U		RAW	Sr89/90	2.86E+09	1.83E+09	
TX104	Sr89/90	4/19/76	T-4391	1.4	293000	uCi/gal	P	Supernate	Braun	Sr89/90	2.86E+09	1.83E+09	
TX104	Sr89/90	4/19/76					P	Supernate	Wastren	Sr89/90	2.86E+09	1.83E+09	
TX118	Sr90	6/6/75	T-5179	1.18	292000	uCi/gal	L		RAW	Sr89/90	2.85E+09	1.78E+09	
TX118	Sr89/90	6/6/75	T-5179	1.18	292000	uCi/gal	P	Supernate	Braun	Sr89/90	2.85E+09	1.78E+09	
TY102	Sr90						L		TRAC	Sr89/90	2.42E+09	1.73E+09	
A101	Sr89/90	10/11/83					L	Drainable Liquid	Wastren	Sr89/90	2.26E+09	1.73E+09	
TX118	Sr89/90	7/14/75	T-6083	1.22	273000	uCi/gal	P	Supernate	Braun	Sr89/90	2.67E+09	1.67E+09	
C106	Sr90	9/1/76	6	1.162	67107	uCi/L	O	Other	RAW	Sr89/90	2.48E+09	1.60E+09	
C106	Sr90	3/15/76	T-3294	1.162	254000	uCi/gal	O	Other	RAW	Sr89/90	2.48E+09	1.58E+09	
C106	Sr89/90	3/15/76	T-3294	1.16	254000	uCi/gal	P	Supernate	Braun	Sr89/90	2.48E+09	1.58E+09	
TX109	Sr90	8/12/75	T-7018	1.2395	249000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	2.43E+09	1.53E+09	
TX109	Sr89/90	8/12/75	T-7018	1.24	248700	uCi/gal	P	Supernate	Braun	Sr89/90	2.43E+09	1.53E+09	
TX118	Sr90	10/13/75	T-8758	1.175	246000	uCi/gal	L		RAW	Sr89/90	2.40E+09	1.52E+09	
TX118	Sr89/90	10/13/75	T-8758	1.175	246000	uCi/gal	P	Supernate	Braun	Sr89/90	2.40E+09	1.52E+09	
S102	Sr89/90	10/10/75	T-8706	1.38	241000	uCi/gal	P	Supernate	Braun	Sr89/90	2.36E+09	1.48E+09	
AX103	Sr90						L		TRAC	Sr89/90	2.02E+09	1.44E+09	
TX101	Sr90	10/5/76	T-7478	1.189	223000	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	2.18E+09	1.41E+09	
U107	Sr90						L		TRAC	Sr89/90	1.88E+09	1.34E+09	
TX118	Sr89/90	4/10/75	T-3491	1.22	212000	uCi/gal	P	Supernate	Braun	Sr89/90	2.07E+09	1.29E+09	
A101	Sr89/90	8/22/80	T-2691	1.2814	48500	uCi/l	P	Supernate	Braun	Sr89/90	1.79E+09	1.27E+09	
SX105	Sr90	12/12/75	377	1.5	54100	uCi/L	U		RAW	Sr89/90	2.00E+09	1.27E+09	
TY103	Sr90						L		TRAC	Sr89/90	1.77E+09	1.26E+09	
TX110	Sr90						L		TRAC	Sr89/90	1.73E+09	1.24E+09	
S102	Sr90	2/17/76	T-2395	1.25	197000	uCi/gal	L	No solids	RAW	Sr89/90	1.93E+09	1.22E+09	
U102	Sr90						L		TRAC	Sr89/90	1.70E+09	1.22E+09	
C201	Sr89/90	12/4/78					P	Supernate	Wastren	Sr89/90	1.75E+09	1.19E+09	
TX102	Sr90	2/2/76	T-1990	1.456	191000	uCi/gal	O		RAW	Sr89/90	1.87E+09	1.19E+09	
TX102	Sr89/90	2/2/76	T-1990	1.456	191000	uCi/gal	P	Supernate	Braun	Sr89/90	1.87E+09	1.19E+09	
C103	Sr90	1/3/75	T-1174	1.162	193000	uCi/gal	L	Solids unknown	RAW	Sr89/90	1.89E+09	1.17E+09	
C103	Sr89/90	1/3/75	T-1174	1.162	193000	uCi/gal	P	Supernate	Braun	Sr89/90	1.89E+09	1.17E+09	
C103	Sr90	1/24/75	T-1685	1.1729	192000	uCi/gal	O	Other	RAW	Sr89/90	1.88E+09	1.16E+09	
C103	Sr89/90	1/24/75	T-1685	1.1729	192000	uCi/gal	P	Supernate	Braun	Sr89/90	1.88E+09	1.16E+09	
TX118	Sr90	4/21/75	T-3751	1.2	184000	uCi/gal	U		RAW	Sr89/90	1.80E+09	1.12E+09	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information						ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
TX118	Sr89/90	4/21/75	T-3751	1.2	184000	uCi/gal	P	Supernate	Braun	Sr89/90	1.80E+09	1.12E+09		
A101	Sr89/90	8/22/80	T-2692	1.3017	42700	uCi/l	P	Supernate	Braun	Sr89/90	1.58E+09	1.12E+09		
TX111	Sr90						L		TRAC	Sr89/90	1.55E+09	1.10E+09		
U111	Sr90						L		TRAC	Sr89/90	1.48E+09	1.06E+09		
TX118	Sr89/90	4/24/75	T-3909	1.2257	149000	uCi/gal	P	Supernate	Braun	Sr89/90	1.46E+09	9.08E+08		
BY108	Sr90						L		TRAC	Sr89/90	1.19E+09	8.47E+08		
U103	Sr90	12/10/77	3432	1.454	121000	uCi/gal	L	Liquid	RAW	Sr89/90	1.18E+09	7.85E+08		
U103	Sr89/90	12/10/77	3432	1.454	121000	uCi/gal	P	Supernate	Braun	Sr89/90	1.18E+09	7.85E+08		
S102	Sr89/90	6/20/75	T-5514	1.5202	120000	uCi/gal	P	Supernate	Braun	Sr89/90	1.17E+09	7.34E+08		
SX101	Sr90	10/29/80	RAT-SX101-2	1.028	27200	uCi/l	P	Supernate	Braun	Sr89/90	1.01E+09	7.16E+08		
SX101	Sr90	10/29/80		1.028	27200	uCi/L	O		RAW	Sr89/90	1.01E+09	7.16E+08		
B109	Sr90						L		TRAC	Sr89/90	9.82E+08	7.02E+08		
A106	Sr90	10/27/79	T-4818	1.194	27000	uCi/L	L	liquid	RAW	Sr89/90	9.99E+08	6.94E+08		
A106	Sr89/90	10/27/79	T-4818	1.194	27000	uCi/l	P	Supernate	Braun	Sr89/90	9.99E+08	6.94E+08		
T106	Sr90	6/18/73			113000	uCi/gal	L	NO SOLIDS	RAW	Sr89/90	1.10E+09	6.58E+08		
T106	Sr89/90	6/18/73	T-7422		113000	uCi/gal	P	Supernate	Braun	Sr89/90	1.10E+09	6.58E+08		
C101	Sr90						L		TRAC	Sr89/90	9.11E+08	6.51E+08		
S102	Sr90	9/19/75	4963	1.4	102000	uCi/gal	L	Solid unknow	RAW	Sr89/90	9.97E+08	6.27E+08		
S102	Sr89/90	6/2/75	T-4963	1.4	102000	uCi/gal	P	Supernate	Braun	Sr89/90	9.97E+08	6.23E+08		
S102	Sr89/90	11/11/75	T-9697	1.42	99200	uCi/gal	P	Supernate	Braun	Sr89/90	9.70E+08	6.12E+08		
U102	Sr89/90	3/1/76					P	Supernate	Wastren	Sr89/90	9.55E+08	6.08E+08		
U102	Sr90	3/1/76		1.27	25800	uCi/l	P	Supernatant	RAW	Sr89/90	9.55E+08	6.07E+08		
U102	Sr89/90	3/1/76	RAT-U102-1	1.27	25800	uCi/l	P	Supernate	Braun	Sr89/90	9.55E+08	6.07E+08		
U102	Sr89/90	3/1/76	RAT-U102-1	1.38	25800	uCi/l	P	Supernate	Braun	Sr89/90	9.55E+08	6.07E+08		
U102	Sr89/90	3/1/76	RAT-U102-1	1.6	25800	uCi/l	P	Supernate	Braun	Sr89/90	9.55E+08	6.07E+08		
S108	Sr90						L		TRAC	Sr89/90	8.36E+08	5.97E+08		
TX118	Sr90	6/16/75	T-5393	1.16	97600	uCi/gal	L		RAW	Sr89/90	9.54E+08	5.97E+08		
TX118	Sr89/90	6/16/75	T-5393	1.16	97600	uCi/gal	P	Supernate	Braun	Sr89/90	9.54E+08	5.97E+08		
S102	Sr89/90	11/10/75	T-9601	1.42	95600	uCi/gal	P	Supernate	Braun	Sr89/90	9.34E+08	5.90E+08		
S102	Sr90	5/2/75	4104		95600	uCi/gal	O		RAW	Sr89/90	9.34E+08	5.83E+08		
S102	Sr89/90	5/2/75	T-4104		95600	uCi/gal	P	Supernate	Braun	Sr89/90	9.34E+08	5.83E+08		
U103	Sr90	4/16/76		1.305	21900	uCi/l	P	Supernatant	RAW	Sr89/90	8.10E+08	5.17E+08		
U103	Sr89/90	4/16/76	RAT-U103-1	1.2278	21900	uCi/l	P	Supernate	Braun	Sr89/90	8.10E+08	5.17E+08		
U103	Sr89/90	4/16/76	RAT-U103-1	1.305	21900	uCi/l	P	Supernate	Braun	Sr89/90	8.10E+08	5.17E+08		
S111	Sr89/90	8/25/78	RAT-S111-3	1.5	20400	uCi/l	P	Supernate	Braun	Sr89/90	7.55E+08	5.10E+08		
S102	Sr89/90	8/5/75	T-6806	1.32	82700	uCi/gal	P	Supernate	Braun	Sr89/90	8.08E+08	5.07E+08		
AX101	Sr89/90	8/19/80	T-3102	1.445	17600	uCi/l	P	Supernate	Braun	Sr89/90	6.51E+08	4.61E+08		
S102	Sr90	4/10/75	3478	1.38	73000	uCi/gal	O		RAW	Sr89/90	7.14E+08	4.44E+08		
S102	Sr89/90	4/10/75	T-3478	1.38	73000	uCi/gal	P	Supernate	Braun	Sr89/90	7.14E+08	4.44E+08		
BX106	Sr90	4/21/75	T-3855	1.3739	72400	uCi/gal	O	Other	RAW	Sr89/90	7.08E+08	4.41E+08		
BX106	Sr89/90	4/21/75	T-3855	1.3739	72400	uCi/gal	P	Supernate	Braun	Sr89/90	7.08E+08	4.41E+08		
U103	Sr89/90	12/10/77	3665	1.547	67800	uCi/gal	P	Supernate	Braun	Sr89/90	6.63E+08	4.40E+08		
S102	Sr89/90	1/7/76	T-1330	1.38	70300	uCi/gal	P	Supernate	Braun	Sr89/90	6.87E+08	4.36E+08		
AX103	Sr90	4/27/80	T-93	1.376	16200	uCi/L	L	no solids	RAW	Sr89/90	5.99E+08	4.21E+08		
AX103	Sr89/90	4/27/80	T-93	1.376	16200	uCi/l	P	Supernate	Braun	Sr89/90	5.99E+08	4.21E+08		
AX103	Sr89/90	4/27/80					P	Supernate	Wastren	Sr89/90	5.99E+08	4.21E+08		
A101	Sr90	10/3/79	T-3971	1.052	15900	uCi/L	O	Other	RAW	Sr89/90	5.88E+08	4.08E+08		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
					Value	Unit							
A101	Sr89/90	10/3/79	T-3971	1.052	15900	uCi/l	P	Supernate	Braun	Sr89/90	5.88E+08	4.08E+08	
C104	Sr90	5/19/87	D1XDXXXX	1.18	13000	uCi/l	L	Drainable Liquor	RAW	Sr89/90	4.81E+08	4.01E+08	
SX103	Sr90	3/18/76		1.601	10.5	uCi/g	P	Supernatant	RAW	Sr89/90	6.22E+08	3.96E+08	
SX103	Sr90	3/18/76		1.601	10.4	uCi/g	P	Supernatant	RAW	Sr89/90	6.16E+08	3.92E+08	
C104	Sr90	4/15/86	D1XD00XX	1.18	13000	uCi/l	L	Liquor	Braun	Sr89/90	4.81E+08	3.90E+08	
C104	Sr89/90	4/15/86					L	Drainable Liquid	Wastren	Sr89/90	4.81E+08	3.90E+08	
TX110	Sr89/90	8/4/79	RAT-TX110-1	1.419	15100	uCi/l	P	Supernate	Braun	Sr89/90	5.59E+08	3.86E+08	
BX103	Sr90	6/18/75	T-5455	1.124	60100	uCi/gal	L	no solids	RAW	Sr89/90	5.87E+08	3.67E+08	
BX103	Sr89/90	6/18/75	T-5455	1.1243	60100	uCi/gal	P	Supernate	Braun	Sr89/90	5.87E+08	3.67E+08	
AX103	Sr90	4/27/80	T-92	1.274	14100	uCi/L	L	no solids	RAW	Sr89/90	5.22E+08	3.67E+08	
AX103	Sr89/90	4/27/80	T-92	1.274	14100	uCi/l	P	Supernate	Braun	Sr89/90	5.22E+08	3.67E+08	
BX105	Sr90	5/19/87	B2XDXXXX	1.294	11500	uCi/l	L	Drainable Liquor	RAW	Sr89/90	4.26E+08	3.54E+08	
B103	Sr90						L		TRAC	Sr89/90	4.85E+08	3.47E+08	
BX105	Sr89/90	3/4/86					P	Supernate	Wastren	Sr89/90	4.26E+08	3.45E+08	
BX105	Sr90	3/4/86	82XD00XX	1.29	11500	uCi/l	L	Liquor	Braun	Sr89/90	4.26E+08	3.44E+08	
S102	Sr89/90	10/21/75	T-9049	1.48	55600	uCi/gal	P	Supernate	Braun	Sr89/90	5.43E+08	3.43E+08	
S102	Sr90	4/17/75	3639	1.32	55800	uCi/gal	O		RAW	Sr89/90	5.45E+08	3.40E+08	
S102	Sr89/90	4/17/75	T-3639	1.32	55800	uCi/gal	P	Supernate	Braun	Sr89/90	5.45E+08	3.40E+08	
BX105	Sr90	5/19/87	B1XDXXXX	1.291	11000	uCi/l	L	Drainable Liquor	RAW	Sr89/90	4.07E+08	3.39E+08	
A103	Sr90						L		TRAC	Sr89/90	4.68E+08	3.34E+08	
BX105	Sr90	3/3/86	81XD00XX	1.29	11000	uCi/l	L	Liquor	Braun	Sr89/90	4.07E+08	3.29E+08	
SX104	Sr90	12/5/75	T-375	1.49	51800	uCi/gal	U		RAW	Sr89/90	5.06E+08	3.20E+08	
A102	Sr90	7/17/80	T-1244	1.1572	12000	uCi/L	F	4 ft. sample, filtrate	RAW	Sr89/90	4.44E+08	3.14E+08	
A102	Sr89/90	7/17/80	T-1244	1.1572	12000	uCi/l	P	Supernate	Braun	Sr89/90	4.44E+08	3.14E+08	
T101	Sr90	6/2/93	R-2847		8.7	uCi/ml	P	Supernatant	RAW	Sr89/90	3.22E+08	3.10E+08	
S102	Sr90	8/15/75	7092	1.513	50500	uCi/gal	O		RAW	Sr89/90	4.94E+08	3.10E+08	
S102	Sr89/90	8/15/75	T-7092	1.513	50500	uCi/gal	P	Supernate	Braun	Sr89/90	4.94E+08	3.10E+08	
S102	Sr90	8/19/75	7218	1.3662	47300	uCi/gal	L	No solids	RAW	Sr89/90	4.62E+08	2.90E+08	
S102	Sr89/90	8/19/75	T-7218	1.3662	47300	uCi/gal	P	Supernate	Braun	Sr89/90	4.62E+08	2.90E+08	
S102	Sr90	7/14/75	6042	1.34	47000	uCi/gal	O		RAW	Sr89/90	4.59E+08	2.88E+08	
S102	Sr89/90	7/14/75	T-6042	1.34	47000	uCi/gal	P	Supernate	Braun	Sr89/90	4.59E+08	2.88E+08	
BX112	Sr90						L		TRAC	Sr89/90	4.00E+08	2.86E+08	
S102	Sr90	8/25/75	7340	1.395	46600	uCi/gal	L	No solids	RAW	Sr89/90	4.55E+08	2.86E+08	
S102	Sr89/90	8/25/75	T-7340	1.395	46600	uCi/gal	P	Supernate	Braun	Sr89/90	4.55E+08	2.86E+08	
SX103	Sr90	3/18/76			10.6	uCi/g	P	Supernatant	RAW	Sr89/90	4.31E+08	2.75E+08	
C104	Sr89/90	12/5/75	T-374	1.137	44300	uCi/gal	P	Supernate	Braun	Sr89/90	4.33E+08	2.74E+08	
A102	Sr90	7/17/80	T-1243	1.1554	10000	uCi/L	O	Surface sample	RAW	Sr89/90	3.70E+08	2.61E+08	
A102	Sr89/90	7/17/80	T-1243	1.1554	10000	uCi/l	P	Supernate	Braun	Sr89/90	3.70E+08	2.61E+08	
TX118	Sr89/90	1/26/77	T-1205	1.31	40900	uCi/gal	P	Supernate	Braun	Sr89/90	4.00E+08	2.60E+08	
S102	Sr90	7/18/75	6226	1.31	42400	uCi/gal	O		RAW	Sr89/90	4.14E+08	2.60E+08	
S102	Sr89/90	7/18/75	T-6226	1.31	42400	uCi/gal	P	Supernate	Braun	Sr89/90	4.14E+08	2.60E+08	
S102	Sr90	11/24/75	T-119	1.44	42000	uCi/gal	U	cruddy, Unknown	RAW	Sr89/90	4.11E+08	2.59E+08	
S102	Sr89/90	11/24/75	T-119	1.44	42000	uCi/gal	P	Supernate	Braun	Sr89/90	4.11E+08	2.59E+08	
A102	Sr90	12/18/72		1.175	0.0119	Ci/L	P	Supernatant	RAW	Sr89/90	4.40E+08	2.59E+08	
A103	Sr89/90	11/13/72	RAT-A103-1	1.175	0.0119	Ci/l	P	Supernate	Braun	Sr89/90	4.40E+08	2.59E+08	
S102	Sr90	9/3/75	7703	1.3308	40100	uCi/gal	L	No solids	RAW	Sr89/90	3.92E+08	2.46E+08	
S102	Sr89/90	9/3/75	T-7703	1.3308	40100	uCi/gal	P	Supernate	Braun	Sr89/90	3.92E+08	2.46E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	
					Value	Unit						Decayed	IC
S102	Sr90	7/2/75	5792		40200	uCi/gal	O		RAW	Sr89/90	3.93E+08	2.46E+08	
S102	Sr89/90	7/2/75	T-5792		40200	uCi/gal	P	Supernate	Braun	Sr89/90	3.93E+08	2.46E+08	
S102	Sr89/90	6/13/75	T-5137	1.41	39100	uCi/gal	P	Supernate	Braun	Sr89/90	3.82E+08	2.39E+08	
S102	Sr90	7/25/75	6453	1.2861	38200	uCi/gal	L	No solid	RAW	Sr89/90	3.73E+08	2.34E+08	
S102	Sr89/90	7/25/75	T-6453	1.2861	38200	uCi/gal	P	Supernate	Braun	Sr89/90	3.73E+08	2.34E+08	
AX101	Sr89/90	8/19/80	T-3103	1.512	8820	uCi/l	P	Supernate	Braun	Sr89/90	3.26E+08	2.31E+08	
AX101	Sr89/90	8/19/80					P	Supernate	Wastren	Sr89/90	3.26E+08	2.31E+08	
S102	Sr89/90	11/5/75	T-9515	1.41	36400	uCi/gal	P	Supernate	Braun	Sr89/90	3.56E+08	2.25E+08	
S102	Sr89/90	7/9/75	T-5964	1.35	35800	uCi/gal	P	Supernate	Braun	Sr89/90	3.50E+08	2.19E+08	
S102	Sr90	11/3/75	9394	1.326	35300	uCi/gal	L	No solids	RAW	Sr89/90	3.45E+08	2.18E+08	
S102	Sr89/90	11/3/75	T-9394	1.326	35300	uCi/gal	P	Supernate	Braun	Sr89/90	3.45E+08	2.18E+08	
BX103	Sr89/90	4/14/75	T-3635	1.1383	34800	uCi/gal	P	Supernate	Braun	Sr89/90	3.40E+08	2.12E+08	
A102	Sr90	8/4/80	T-2405	1.199	8060	uCi/L	L	trace brown solid	RAW	Sr89/90	2.98E+08	2.11E+08	
A102	Sr89/90	8/4/80	T-2405	1.199	8060	uCi/l	P	Supernate	Braun	Sr89/90	2.98E+08	2.11E+08	
S102	Sr90	12/9/75	T-506	1.43	34100	uCi/gal	O		RAW	Sr89/90	3.33E+08	2.11E+08	
S102	Sr89/90	12/9/75	T-506	1.43	34100	uCi/gal	P	Supernate	Braun	Sr89/90	3.33E+08	2.11E+08	
S102	Sr90	9/30/75	8446	1.398	33800	uCi/gal	L	No solids	RAW	Sr89/90	3.30E+08	2.08E+08	
S102	Sr89/90	9/30/75	T-8446	1.398	33800	uCi/gal	P	Supernate	Braun	Sr89/90	3.30E+08	2.08E+08	
A101	Sr90	10/2/79	T-3970	0.9952	8060	uCi/L	O	Other	RAW	Sr89/90	2.98E+08	2.07E+08	
A101	Sr89/90	10/2/79	T-3970	0.9952	8060	uCi/l	P	Supernate	Braun	Sr89/90	2.98E+08	2.07E+08	
BX109	Sr90						L		TRAC	Sr89/90	2.89E+08	2.07E+08	
T107	Sr89/90	9/25/75	T-8248	1.129	8840	uCi/l	P	Supernate	Braun	Sr89/90	3.27E+08	2.06E+08	
S102	Sr90	5/8/75	4240	1.3612	33600	uCi/gal	O		RAW	Sr89/90	3.28E+08	2.05E+08	
S102	Sr89/90	5/8/75	T-4240	1.3612	33600	uCi/gal	P	Supernate	Braun	Sr89/90	3.28E+08	2.05E+08	
A102	Sr90	8/4/80	T-2404	1.18	7770	uCi/L	L	yellow liquid	RAW	Sr89/90	2.87E+08	2.03E+08	
A102	Sr89/90	8/4/80	T-2404	1.18	7770	uCi/l	P	Supernate	Braun	Sr89/90	2.87E+08	2.03E+08	
A102	Sr89/90	7/17/80	T-1245	1.1554	7740	uCi/l	P	Supernate	Braun	Sr89/90	2.86E+08	2.02E+08	
S102	Sr90	12/5/75	T-378	1.39	32700	uCi/gal	O		RAW	Sr89/90	3.20E+08	2.02E+08	
S102	Sr89/90	12/5/75	T-378	1.39	32700	uCi/gal	P	Supernate	Braun	Sr89/90	3.20E+08	2.02E+08	
S102	Sr89/90	1/5/76	T-1193	1.4	29900	uCi/gal	P	Supernate	Braun	Sr89/90	2.92E+08	1.85E+08	
TX105	Sr90	3/17/76	T-6311		7790	uCi/L	O	NO SOLIDS	RAW	Sr89/90	2.88E+08	1.84E+08	
U110	Sr90						L		TRAC	Sr89/90	2.57E+08	1.83E+08	
SX103	Sr90	10/10/77	1104(AP#5426,JS#48)		7300	uCi/L	P	Supernatant	RAW	Sr89/90	2.70E+08	1.79E+08	
SX103	Sr89/90	10/10/77	1104	1.5	7300	uCi/l	P	Supernate	Braun	Sr89/90	2.70E+08	1.79E+08	
SX103	Sr89/90	10/10/77	1104	2	7300	uCi/l	P	Supernate	Braun	Sr89/90	2.70E+08	1.79E+08	
SX103	Sr89/90	10/10/77					P	Supernate	Wastren	Sr89/90	2.70E+08	1.79E+08	
T101	Sr90						L		TRAC	Sr89/90	2.43E+08	1.74E+08	
S102	Sr90	5/1/75		1.2538	27100	uCi/gal	L	No solids	RAW	Sr89/90	2.65E+08	1.65E+08	
S102	Sr89/90	4/29/75	T-4028	1.2538	27100	uCi/gal	P	Supernate	Braun	Sr89/90	2.65E+08	1.65E+08	
S102	Sr89/90	4/4/75	T-3328	1.34	27000	uCi/gal	P	Supernate	Braun	Sr89/90	2.64E+08	1.64E+08	
A105	Sr90	5/1/65			0.009	Ci/L	P	supernate	RAW	Sr89/90	3.33E+08	1.63E+08	
A105	Sr90	5/1/65	RAT-A105-3		0.034	Ci/gal	P	Supernate	Braun	Sr89/90	3.32E+08	1.63E+08	
S102	Sr89/90	11/21/75	T-37	1.28	25800	uCi/gal	P	Supernate	Braun	Sr89/90	2.52E+08	1.59E+08	
TX107	Sr90	4/28/75	T-3975	1.3804	26100	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	2.55E+08	1.59E+08	
TX107	Sr89/90	4/28/75	T-3975	1.3804	26100	uCi/gal	P	Supernate	Braun	Sr89/90	2.55E+08	1.59E+08	
S102	Sr89/90	11/19/75	T-9952	1.29	25700	uCi/gal	P	Supernate	Braun	Sr89/90	2.51E+08	1.59E+08	
C107	Sr90						L		TRAC	Sr89/90	2.21E+08	1.58E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed	
C105	Sr90	5/19/87		1.23	5120	uCi/L	L	drainable liquor	RAW	Sr89/90	1.89E+08	1.58E+08		
C105	Sr90	5/19/87	C1XDXXXX	1.23	5120	uCi/l	L	Drainable Liquor	RAW	Sr89/90	1.89E+08	1.58E+08		
T101	Sr90	6/2/93	R-2926		4.39	uCi/ml	P	Supernatant	RAW	Sr89/90	1.62E+08	1.56E+08		
C105	Sr89/90	4/11/86					L	Drainable Liquid	Wastren	Sr89/90	1.90E+08	1.54E+08		
C105	Sr90	4/11/86	C1XD00XX	1.23	5120	uCi/l	L	Liquor	Braun	Sr89/90	1.89E+08	1.54E+08		
S102	Sr89/90	4/2/75	T-3259	1.24	25200	uCi/gal	P	Supernate	Braun	Sr89/90	2.46E+08	1.53E+08		
S102	Sr90	9/8/75	7748	1.2748	24400	uCi/gal	O		RAW	Sr89/90	2.38E+08	1.50E+08		
T102	Sr90	7/24/73	T-7892		6770	uCi/L	L	No Solids	RAW	Sr89/90	2.50E+08	1.50E+08		
T102	Sr89/90	7/24/73	T-7892		6770	uCi/l	U	Unknown	Braun	Sr89/90	2.50E+08	1.50E+08		
T102	Sr89/90	7/20/73	RAT-T102-1		6770	uCi/l	U	Unknown	Braun	Sr89/90	2.50E+08	1.50E+08		
A102	Sr89/90	12/8/79	T-6176	1.214	5620	uCi/l	P	Supernate	Braun	Sr89/90	2.08E+08	1.45E+08		
S102	Sr89/90	1/20/76	T-1683	1.39	23200	uCi/gal	P	Supernate	Braun	Sr89/90	2.27E+08	1.44E+08		
B104	Sr90						L		TRAC	Sr89/90	1.94E+08	1.39E+08		
A102	Sr90	12/8/74	T-6176	1.214	5620	uCi/L	O	Other	RAW	Sr89/90	2.08E+08	1.28E+08		
A101	Sr90	11/10/80	RAT-A101-4B	1.47	4800	uCi/l	F	Filtrate	Braun	Sr89/90	1.78E+08	1.26E+08		
T103	Sr89/90	7/24/73	T-7869		5630	uCi/l	U	Unknown	Braun	Sr89/90	2.08E+08	1.24E+08		
S102	Sr90	4/23/75	2278	1.1914	20200	uCi/gal	L	No solids	RAW	Sr89/90	1.97E+08	1.23E+08		
S102	Sr89/90	2/24/75	T-2278	1.1914	20200	uCi/gal	P	Supernate	Braun	Sr89/90	1.97E+08	1.23E+08		
B102	Sr89/90	10/24/75					P	Supernate	Wastren	Sr89/90	1.92E+08	1.21E+08		
B102	Sr90	10/24/75	T-4887	1.138	19600	uCi/gal	O	Other	RAW	Sr89/90	1.92E+08	1.21E+08		
B102	Sr89/90	10/24/75	T-4887	1.1383	19600	uCi/gal	P	Supernate	Braun	Sr89/90	1.92E+08	1.21E+08		
A106	Sr90	5/19/87	A2XDXXXX	1.36	3910	uCi/l	L	Drainable Liquor	RAW	Sr89/90	1.45E+08	1.20E+08		
A106	Sr89/90	3/13/86					L	Drainable Liquid	Wastren	Sr89/90	1.45E+08	1.17E+08		
AX101	Sr90	11/11/80	RAT-AX101-3	1.391	4450	uCi/l	P	Supernate	Braun	Sr89/90	1.65E+08	1.17E+08		
A106	Sr90	3/13/86	A2XD00XX	1.36	3910	uCi/l	L	Liquor	Braun	Sr89/90	1.45E+08	1.17E+08		
AX101	Sr90	11/11/80	RAT-AX101-2	1.36	4310	uCi/l	P	Supernate	Braun	Sr89/90	1.59E+08	1.14E+08		
S102	Sr90	9/2/75	7627	1.1716	18400	uCi/gal	L	No solids	RAW	Sr89/90	1.80E+08	1.13E+08		
S102	Sr89/90	9/2/75	T-7627	1.1716	18400	uCi/gal	P	Supernate	Braun	Sr89/90	1.80E+08	1.13E+08		
A101	Sr90	11/10/80	RAT-A101-9B	1.43	4280	uCi/l	F	Filtrate	Braun	Sr89/90	1.58E+08	1.13E+08		
C103	Sr89/90	6/3/91	R-8109	1.06	3300	uCi/l	P	Supernate	Braun	Sr89/90	1.22E+08	1.12E+08		
A102	Sr90	12/23/80	RAT-A102-1	1.44	4190	uCi/l	F	Filtrate	Braun	Sr89/90	1.55E+08	1.11E+08		
A102	Sr90	12/23/80		1.44	4190	uCi/L	O	30% crystals	RAW	Sr89/90	1.55E+08	1.11E+08		
C103	Sr90	11/20/90	R8109	1.06	3300	uCi/L	P	supernate	RAW	Sr89/90	1.22E+08	1.11E+08		
A101	Sr90	11/11/80	RAT-A101-5B	1.45	4190	uCi/l	F	Filtrate	Braun	Sr89/90	1.55E+08	1.10E+08		
AX103	Sr90	10/14/74		1.157	4660	uCi/L	P	Supernatant	RAW	Sr89/90	1.72E+08	1.06E+08		
AX103	Sr89/90	10/14/74	RAT-AX103-2	1.157	4660	uCi/l	P	Supernate	Braun	Sr89/90	1.72E+08	1.06E+08		
T103	Sr90						L		TRAC	Sr89/90	1.45E+08	1.04E+08		
TX112	Sr90						L		TRAC	Sr89/90	1.45E+08	1.04E+08		
BX103	Sr90	10/23/75	T-9138	1.103	16800	uCi/gal	L	no solids	RAW	Sr89/90	1.64E+08	1.04E+08		
BX103	Sr89/90	10/23/75	T-9138	1.103	16800	uCi/gal	L	Liquor	Braun	Sr89/90	1.64E+08	1.04E+08		
BX103	Sr89/90	10/23/75					P	Supernate	Wastren	Sr89/90	1.64E+08	1.03E+08		
A103	Sr90	5/19/87	B1XDXXXX	1.476	3210	uCi/l	L	Drainable Liquor	RAW	Sr89/90	1.19E+08	9.89E+07		
A103	Sr90	3/26/86	B1XD00XX	1.476	3210	uCi/l	L	Liquor	Braun	Sr89/90	1.19E+08	9.62E+07		
BX104	Sr90	8/15/75	T-7088	1.1285	15500	uCi/gal	L	no solids	RAW	Sr89/90	1.51E+08	9.51E+07		
A106	Sr90	5/19/87	A1XDXXXX	1.35	3040	uCi/l	L	Drainable Liquor	RAW	Sr89/90	1.12E+08	9.37E+07		
A106	Sr90	3/11/86	A1XD00XX	1.35	3040	uCi/l	L	Liquor	Braun	Sr89/90	1.12E+08	9.10E+07		
C103	Sr89/90	6/3/91	R-8108	1.07	2500	uCi/l	P	Supernate	Braun	Sr89/90	9.25E+07	8.49E+07		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
B106	Sr89/90	10/6/75					P	Supernate	Wastren	Sr89/90	1.34E+08	8.44E+07	
B106	Sr90	10/6/75	T-8577	1.227	13700	uCi/gal	L	no solids	RAW	Sr89/90	1.34E+08	8.44E+07	
B106	Sr89/90	10/6/75	T-8577	1.227	13700	uCi/gal	P	Supernate	Braun	Sr89/90	1.34E+08	8.44E+07	
A102	Sr90	12/23/80	RAT-A102-2	1.452	3190	uCi/l	F	Filtrate	Braun	Sr89/90	1.18E+08	8.43E+07	
A102	Sr90	12/23/80		1.452	3190	uCi/L	O	30% crystals	RAW	Sr89/90	1.18E+08	8.43E+07	
C103	Sr90	11/20/90	R8108	1.07	2500	uCi/L	P	supernate	RAW	Sr89/90	9.25E+07	8.38E+07	
S102	Sr90	10/7/75	8634	1.19	13500	uCi/gal	O		RAW	Sr89/90	1.32E+08	8.31E+07	
S102	Sr89/90	10/7/75	T-8634	1.19	13500	uCi/gal	P	Supernate	Braun	Sr89/90	1.32E+08	8.31E+07	
C103	Sr90	5/19/87	F2XDXXXX	1.08	2630	uCi/l	L	Drainable Liquor	RAW	Sr89/90	9.73E+07	8.10E+07	
BX104	Sr90	2/14/86	71XD00XX	1.31	2710	uCi/l	L	Liquor	Braun	Sr89/90	1.00E+08	8.10E+07	
TX106	Sr90	8/19/76	T-6312	1.437	12600	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	1.23E+08	7.92E+07	
TX106	Sr89/90	8/19/76	T-6312	1.437	12600	uCi/gal	P	Supernate	Braun	Sr89/90	1.23E+08	7.92E+07	
A103	Sr90	5/19/87	B2XDXXXX	1.48	2570	uCi/l	L	Drainable Liquor	RAW	Sr89/90	9.51E+07	7.92E+07	
C103	Sr90	5/14/86	F2XD00XX	1.08	2630	uCi/l	L	Liquor	Braun	Sr89/90	9.73E+07	7.91E+07	
T104	Sr90						L		TRAC	Sr89/90	1.08E+08	7.74E+07	
A103	Sr89/90	4/3/86					L	Drainable Liquid	Wastren	Sr89/90	9.51E+07	7.71E+07	
A103	Sr90	4/3/86	B2XD00XX	1.48	2570	uCi/l	L	Liquor	Braun	Sr89/90	9.51E+07	7.71E+07	
U109	Sr89/90	11/12/75	RAT-U109-1	1.05	3150	uCi/l	P	Supernate	Braun	Sr89/90	1.17E+08	7.36E+07	
U109	Sr89/90	11/12/75	RAT-U109-1	1.24	3150	uCi/l	P	Supernate	Braun	Sr89/90	1.17E+08	7.36E+07	
BX104	Sr89/90	2/26/86					L	Drainable Liquid	Wastren	Sr89/90	8.70E+07	7.04E+07	
BX104	Sr90	2/26/86	72XD00XX	1.21	2350	uCi/l	L	Liquor	Braun	Sr89/90	8.70E+07	7.03E+07	
A101	Sr90	10/10/83	7879	1.3597	2300	uCi/l	P	Supernate	Braun	Sr89/90	8.51E+07	6.50E+07	
A101	Sr90	10/10/83	7879	1.3617	2300	uCi/l	P	Supernate	Braun	Sr89/90	8.51E+07	6.50E+07	
S111	Sr90	8/25/78		1.46	2510	uCi/L	L	Supernatant	RAW	Sr89/90	9.29E+07	6.27E+07	
S111	Sr89/90	8/25/78	1009-C	1.44	2510	uCi/l	P	Supernate	Braun	Sr89/90	9.29E+07	6.27E+07	
S111	Sr89/90	8/25/78	1009-C	1.46	2510	uCi/l	P	Supernate	Braun	Sr89/90	9.29E+07	6.27E+07	
A103	Sr90	4/7/80	T-9536	1.417	2410	uCi/L	L	opaque yellow	RAW	Sr89/90	8.92E+07	6.26E+07	
A103	Sr89/90	4/7/80	T-9536	1.417	2410	uCi/l	P	Supernate	Braun	Sr89/90	8.92E+07	6.26E+07	
BX104	Sr89/90	8/14/80	T-1784	1.046	2330	uCi/l	P	Supernate	Braun	Sr89/90	8.62E+07	6.10E+07	
C103	Sr90	5/19/87	F1XDXXXX	1.11	1950	uCi/l	L	Drainable Liquor	RAW	Sr89/90	7.22E+07	6.01E+07	
BX104	Sr89/90	8/14/80	T-1785	1.046	2250	uCi/l	P	Supernate	Braun	Sr89/90	8.33E+07	5.89E+07	
C103	Sr90	5/7/86	F1XD00XX	1.11	1950	uCi/l	L	Liquor	Braun	Sr89/90	7.22E+07	5.86E+07	
T204	Sr89/90	12/4/78					L	Drainable Liquid	Wastren	Sr89/90	8.51E+07	5.78E+07	
C107	Sr90	6/3/91	8086	1.14	1700	uCi/L	P	supernate	RAW	Sr89/90	6.29E+07	5.77E+07	
C107	Sr89/90	6/3/91					L	Drainable Liquid	Wastren	Sr89/90	6.29E+07	5.77E+07	
C107	Sr89/90	6/3/91	R-8046	1.14	1700	uCi/l	P	Supernate	Braun	Sr89/90	6.29E+07	5.77E+07	
C107	Sr90	11/20/90			1700	uCi/L	P	supernate	RAW	Sr89/90	6.29E+07	5.70E+07	
TX103	Sr90	9/21/79	T-1465	1.24	2120	uCi/l	L	Liquor	Braun	Sr89/90	7.84E+07	5.43E+07	
A102	Sr90	5/19/87	92XDXXXX	1.51	1740	uCi/l	L	Drainable Liquor	RAW	Sr89/90	6.44E+07	5.36E+07	
A102	Sr90	3/8/86	92XD00XX	1.51	1740	uCi/l	L	Liquor	Braun	Sr89/90	6.44E+07	5.21E+07	
BX104	Sr90	11/5/75	T-9511	1.087	8380	uCi/gal	L	no solids	RAW	Sr89/90	8.19E+07	5.17E+07	
BX104	Sr89/90	11/5/75	T-9511	1.087	8380	uCi/gal	L	Liquor	Braun	Sr89/90	8.19E+07	5.17E+07	
A102	Sr90	3/15/89		1.57	1580	uCi/L	P	Supernatant	RAW	Sr89/90	5.85E+07	5.09E+07	
A102	Sr89/90	3/14/89	R-4656	1.57	1580	uCi/l	P	Supernate	Braun	Sr89/90	5.85E+07	5.09E+07	
C106	Sr90	5/19/87	G1XDXXXX	1.22	1650	uCi/l	L	Drainable Liquor	RAW	Sr89/90	6.11E+07	5.08E+07	
C106	Sr90	4/14/87		1.22	1650	uCi/L	L	Drainable liquor	RAW	Sr89/90	6.11E+07	5.07E+07	
TX105	Sr90						L		TRAC	Sr89/90	7.06E+07	5.05E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C106	Sr89/90	5/19/86					L	Drainable Liquid	Wastren	Sr89/90	6.11E+07	4.97E+07	
C106	Sr90	5/19/86	G1XD00XX	1.22	1650	uCi/l	L	Liquor	Braun	Sr89/90	6.11E+07	4.96E+07	
C106	Sr90	5/19/86		1.22	1650	uCi/L	L	Core, liquid	RAW	Sr89/90	6.11E+07	4.96E+07	
TX105	Sr89/90	8/19/76	T-6311	1.403	7790	uCi/gal	P	Supernate	Braun	Sr89/90	7.61E+07	4.90E+07	
A102	Sr90	5/19/87	91XDXXX	1.52	1550	uCi/l	L	Drainable Liquor	RAW	Sr89/90	5.74E+07	4.78E+07	
TX118	Sr90	2/25/75	T-9434	1.5346	7870	uCi/gal	U		RAW	Sr89/90	7.69E+07	4.78E+07	
TX118	Sr89/90	2/25/75	T-9434	1.5346	7870	uCi/gal	P	Supernate	Braun	Sr89/90	7.69E+07	4.78E+07	
A102	Sr90	3/6/86	91XD00XX	1.52	1550	uCi/l	L	Liquor	Braun	Sr89/90	5.74E+07	4.64E+07	
TX103	Sr90	9/21/79	T-1470	1.25	1800	uCi/l	L	Liquor	Braun	Sr89/90	6.66E+07	4.61E+07	
BX104	Sr90	7/15/75	T-6110	1.1471	7440	uCi/gal	L	no solids	RAW	Sr89/90	7.27E+07	4.56E+07	
BX104	Sr89/90	7/15/75	T-6110	1.1471	7440	uCi/gal	L	Liquor	Braun	Sr89/90	7.27E+07	4.56E+07	
TX103	Sr89/90	9/21/79					P	Supernate	Wastren	Sr89/90	6.44E+07	4.46E+07	
TX103	Sr90	9/21/79	T-1467	1.24	1710	uCi/l	L	Liquor	Braun	Sr89/90	6.33E+07	4.38E+07	
SX103	Sr90	4/11/75		1.38	1870	uCi/L	P	Supernatant	RAW	Sr89/90	6.92E+07	4.31E+07	
SX103	Sr89/90	4/11/75	RAT-SX103-1B	1.38	1870	uCi/l	P	Supernate	Braun	Sr89/90	6.92E+07	4.31E+07	
S102	Sr90	9/29/75	8350	1.346	6850	uCi/gal	L	No solids	RAW	Sr89/90	6.70E+07	4.22E+07	
S102	Sr89/90	9/29/75	T-8350	1.346	6850	uCi/gal	P	Supernate	Braun	Sr89/90	6.70E+07	4.22E+07	
A103	Sr90	3/19/80	T-8951	1.24	1550	uCi/L	L	light yellow	RAW	Sr89/90	5.74E+07	4.02E+07	
A103	Sr89/90	3/19/80	T-8951	1.24	1550	uCi/l	P	Supernate	Braun	Sr89/90	5.74E+07	4.02E+07	
BY112	Sr90	5/29/71			1850	uCi/L	P	supernatant	RAW	Sr89/90	6.85E+07	3.88E+07	
S107	Sr90	12/17/74	T-8078	1.201	6253	uCi/gal	L	No solids	RAW	Sr89/90	6.11E+07	3.78E+07	
S107	Sr89/90	12/17/74	T-8078	1.201	6253	uCi/gal	P	Supernate	Braun	Sr89/90	6.11E+07	3.78E+07	
T101	Sr90	3/3/75	T-2381	1.3049	6060	uCi/gal	L	NO SOLIDS	RAW	Sr89/90	5.92E+07	3.68E+07	
T101	Sr89/90	3/3/75	T-2381	1.3049	6060	uCi/gal	P	Supernate	Braun	Sr89/90	5.92E+07	3.68E+07	
B102	Sr90						L		TRAC	Sr89/90	5.00E+07	3.57E+07	
TX108	Sr90						L		TRAC	Sr89/90	4.78E+07	3.42E+07	
TX103	Sr90						L		TRAC	Sr89/90	4.47E+07	3.19E+07	
C112	Sr89/90	6/26/75					L	Drainable Liquid	Wastren	Sr89/90	4.79E+07	3.00E+07	
C112	Sr89/90	6/26/75	T-5624	1.12	4900	uCi/gal	P	Supernate	Braun	Sr89/90	4.79E+07	3.00E+07	
S106	Sr89/90	6/4/75	RAT-S106-3	1.45	1220	uCi/l	P	Supernate	Braun	Sr89/90	4.51E+07	2.82E+07	
S106	Sr89/90	6/4/75					P	Supernate	Wastren	Sr89/90	4.51E+07	2.82E+07	
BX112	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	3.16E+07	2.82E+07	
BX111	Sr90	3/16/90	R-6042	1.2	853	uCi/L	P	supernate	RAW	Sr89/90	3.16E+07	2.81E+07	
BX112	Sr89/90	3/16/90	R-6042	1.2	853	uCi/l	P	Supernate	Braun	Sr89/90	3.16E+07	2.81E+07	
T102	Sr90						L		TRAC	Sr89/90	3.57E+07	2.55E+07	
BX106	Sr90	3/16/90	R6037	1.33	650	uCi/L	P	Supernate	RAW	Sr89/90	2.41E+07	2.14E+07	
bx109	Sr90	3/16/90	R-6039	1.34	647	uCi/L	P	supernate	RAW	Sr89/90	2.39E+07	2.13E+07	
TX118	Sr89/90	1/28/80	RAT-TX118-3	1.333	816	uCi/l	L	Liquor	Braun	Sr89/90	3.02E+07	2.11E+07	
TX111	Sr90	9/26/75	T-8313		3360	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	3.28E+07	2.07E+07	
TX111	Sr89/90	9/26/75	T-8313		3360	uCi/gal	P	Supernate	Braun	Sr89/90	3.28E+07	2.07E+07	
TX118	Sr89/90	1/28/80	RAT-TX118-1	1.341	798	uCi/l	L	Liquor	Braun	Sr89/90	2.95E+07	2.06E+07	
TX118	Sr89/90	2/3/77	RAT-TX118-1	1.26	798	uCi/l	L	Liquor	Braun	Sr89/90	2.95E+07	1.92E+07	
BX106	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	1.91E+07	1.70E+07	
BX106	Sr90	3/16/90	R6037	1.33	516	uCi/L	P	Supernate	RAW	Sr89/90	1.91E+07	1.70E+07	
BX106	Sr89/90	3/16/90	R-6037	1.33	516	uCi/l	P	Supernate	Braun	Sr89/90	1.91E+07	1.70E+07	
BY102	Sr90	6/3/91	R8091	1.41	490	uCi/L	P	supernate	RAW	Sr89/90	1.81E+07	1.66E+07	
BY102	Sr89/90	6/3/91	R-8091	1.41	490	uCi/l	P	Supernate	Braun	Sr89/90	1.81E+07	1.66E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information													
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide Information			ID
										Radionuclide	Bq/L	Bq/L Decayed	
BY102	Sr90	11/20/90			487	uCi/L	P	supernate	RAW	Sr89/90	1.80E+07	1.63E+07	
B106	Sr90						L		TRAC	Sr89/90	2.24E+07	1.60E+07	
C108	Sr90	6/19/75	T-5489	1.134	2570	uCi/gal	L	no solids	RAW	Sr89/90	2.51E+07	1.57E+07	
C108	Sr89/90	6/19/75	T-5489	1.13	2570	uCi/gal	P	Supernate	Braun	Sr89/90	2.51E+07	1.57E+07	
C108	Sr89/90	6/19/75					L	Drainable Liquid	Wastren	Sr89/90	2.51E+07	1.57E+07	
C109	Sr90	6/19/75	T-5490	1.212	2530	uCi/gal	L	no solids	RAW	Sr89/90	2.47E+07	1.55E+07	
C109	Sr89/90	6/19/75	T-5490	1.21	2530	uCi/gal	P	Supernate	Braun	Sr89/90	2.47E+07	1.55E+07	
C109	Sr89/90	6/19/75					L	Drainable Liquid	Wastren	Sr89/90	2.47E+07	1.55E+07	
TX103	Sr90	3/1/76	T-2955	1.4	2360	uCi/gal	U		RAW	Sr89/90	2.31E+07	1.47E+07	
TX103	Sr89/90	3/1/76	T-2955	1.4	2360	uCi/gal	P	Supernate	Braun	Sr89/90	2.31E+07	1.47E+07	
BY102	Sr90	6/3/91	R8081	1.42	420	uCi/L	P	supernate	RAW	Sr89/90	1.55E+07	1.43E+07	
BY102	Sr89/90	6/3/91	R-8081	1.42	420	uCi/l	P	Supernate	Braun	Sr89/90	1.55E+07	1.43E+07	
BY102	Sr89/90	6/3/91					P	Supernate	Wastren	Sr89/90	1.55E+07	1.42E+07	
C112	Sr90	3/1/92	B08DT5	1.1	0.367	uCi/g	L	DUPLICATE RESULT	TCD	Sr89/90	1.49E+07	1.40E+07	
TX103	Sr89/90	4/9/76	T-4138	1.43	2230	uCi/gal	P	Supernate	Braun	Sr89/90	2.18E+07	1.39E+07	
C201	Sr90						L		TRAC	Sr89/90	1.91E+07	1.37E+07	
T105	Sr90	5/28/93	B08WT3	0.9933333	0.382	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	1.41E+07	1.36E+07	
T105	Sr90	5/28/93	B08WT3	0.9933333	0.365	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	1.35E+07	1.30E+07	
C112	Sr90	3/1/92	B08DT5	1.1	0.341	uCi/g	L	PRIMARY RESULT	TCD	Sr89/90	1.39E+07	1.30E+07	
C112	Sr90	3/1/92	B08DT5	1.1	0.338	uCi/g	L	DUPLICATE RESULT	TCD	Sr89/90	1.38E+07	1.29E+07	
C112	Sr90	3/1/92	B08DT5	1.1	0.332	uCi/g	L	PRIMARY RESULT	TCD	Sr89/90	1.35E+07	1.26E+07	
C112	Sr90	3/1/92	B08DZ5	1.4	0.232	uCi/g	L	DUPLICATE RESULT	TCD	Sr89/90	1.20E+07	1.12E+07	
C112	Sr90	3/1/92	B08DZ5	1.4	0.227	uCi/g	L	PRIMARY RESULT	TCD	Sr89/90	1.18E+07	1.10E+07	
T107	Sr90	8/1/89			331	uCi/L	P	Supernatant	RAW	Sr89/90	1.22E+07	1.08E+07	
T107	Sr89/90	8/1/89	RAT-T107-1	1.2	331	uCi/l	P	Supernate	Braun	Sr89/90	1.22E+07	1.08E+07	
T107	Sr89/90	8/1/89					P	Supernate	Wastren	Sr89/90	1.22E+07	1.07E+07	
BX109	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	1.20E+07	1.07E+07	
BX109	Sr89/90	3/16/90	R-6039	1.34	324	uCi/l	P	Supernate	Braun	Sr89/90	1.20E+07	1.07E+07	
C109	Sr90						L		TRAC	Sr89/90	1.47E+07	1.05E+07	
TX118	Sr90	10/16/81			387	uCi/L	P	Supernatant	RAW	Sr89/90	1.43E+07	1.04E+07	
TX118	Sr89/90	10/16/81	RAT-TX118-5		387	uCi/l	P	Supernate	Braun	Sr89/90	1.43E+07	1.04E+07	
Minimum Plot Limit: 1.00E+07 Bq/L													
TX108	Sr89/90	1/21/74	T-656	1.403	425	uCi/l	P	Supernate	Braun	Sr89/90	1.57E+07	9.51E+06	
U107	Sr90	10/14/74	T-8938	1.016	1580	uCi/gal	L	No Solids	RAW	Sr89/90	1.54E+07	9.50E+06	
U107	Sr89/90	10/14/74	T-8938	1.016	1580	uCi/gal	P	Supernate	Braun	Sr89/90	1.54E+07	9.50E+06	
SX104	Sr90	7/7/88		1.5	300	uCi/L	L		RAW	Sr89/90	1.11E+07	9.50E+06	
SX104	Sr90	5/14/88	RAT-SX104-3	1.5	300	uCi/l	P	Supernate	Braun	Sr89/90	1.11E+07	9.47E+06	
SX104	Sr89/90	5/14/88					L	Drainable Liquid	Wastren	Sr89/90	1.11E+07	9.47E+06	
S106	Sr90						L		TRAC	Sr89/90	1.31E+07	9.34E+06	
TX102	Sr90						L		TRAC	Sr89/90	1.28E+07	9.16E+06	
BX102	Sr90	9/30/74	T-8511	1.4669	1500	uCi/gal	O	Other	RAW	Sr89/90	1.47E+07	9.01E+06	
BX102	Sr89/90	9/30/74	T-8511	1.4669	1500	uCi/gal	P	Supernate	Braun	Sr89/90	1.47E+07	9.01E+06	
TX108	Sr90	2/2/76	T-1984	1.386	1450	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	1.42E+07	9.00E+06	
TX108	Sr89/90	2/2/76	T-1989	1.386	1450	uCi/gal	P	Supernate	Braun	Sr89/90	1.42E+07	9.00E+06	
T107	Sr90	3/5/85			294	uCi/L	P	Supernatant	RAW	Sr89/90	1.09E+07	8.59E+06	
T107	Sr89/90	3/5/85	R-3872		294	uCi/l	P	Supernate	Braun	Sr89/90	1.09E+07	8.59E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TX108	Sr90	9/25/75	T-8261	1.358	1380	uCi/gal	O	NO SOLIDS	RAW	Sr89/90	1.35E+07	8.49E+06	
TX108	Sr89/90	9/25/75	T-8261	1.358	1380	uCi/gal	P	Supernate	Braun	Sr89/90	1.35E+07	8.49E+06	
C103	Sr89/90	6/3/91					P	Supernate	Wastren	Sr89/90	9.25E+06	8.49E+06	
BY112	Sr90	4/4/72	RAT-BY112-2	1.42	0.27	uCi/gm	L	Liquid	Braun	Sr89/90	1.42E+07	8.22E+06	
BY112	Sr90	4/1/72		1.42	0.27	uCi/g	L	liquid	RAW	Sr89/90	1.42E+07	8.21E+06	
BY103	Sr90	6/3/91	R8088		233	uCi/L	P	supernate	RAW	Sr89/90	8.62E+06	7.91E+06	
BY103	Sr89/90	6/3/91	R-8088	1.45	233	uCi/l	P	Supernate	Braun	Sr89/90	8.62E+06	7.91E+06	
BY103	Sr89/90	6/3/91					L	Drainable Liquid	Wastren	Sr89/90	8.62E+06	7.91E+06	
C111	Sr90						L		TRAC	Sr89/90	9.16E+06	6.55E+06	
BY109	Sr90	6/3/91	R8094	1.4	190	uCi/L	P	supernatant	RAW	Sr89/90	7.03E+06	6.45E+06	
BY109	Sr89/90	6/3/91					P	Supernate	Wastren	Sr89/90	7.03E+06	6.45E+06	
BY109	Sr89/90	6/3/91	R-8094	1.4	190	uCi/l	P	Supernate	Braun	Sr89/90	7.03E+06	6.45E+06	
BX108	Sr90						L		TRAC	Sr89/90	8.92E+06	6.37E+06	
B105	Sr90						L		TRAC	Sr89/90	7.72E+06	5.51E+06	
S103	Sr89/90	12/6/74					P	Supernate	Wastren	Sr89/90	8.88E+06	5.48E+06	
S103	Sr90	12/6/74	T-8009	1.235	908	uCi/gal	L	No solids	RAW	Sr89/90	8.87E+06	5.48E+06	
S103	Sr89/90	12/6/74	T-8009	1.235	908	uCi/gal	P	Supernate	Braun	Sr89/90	8.87E+06	5.48E+06	
BY109	Sr89/90	6/3/91	R-8084	1.3	160	uCi/l	P	Supernate	Braun	Sr89/90	5.92E+06	5.43E+06	
B107	Sr90						L		TRAC	Sr89/90	7.30E+06	5.21E+06	
TX114	Sr90						L		TRAC	Sr89/90	7.20E+06	5.15E+06	
TY101	Sr90						L		TRAC	Sr89/90	6.89E+06	4.92E+06	
BY104	Sr90	3/16/76		1.45	201	uCi/L	P	supernatant	RAW	Sr89/90	7.44E+06	4.74E+06	
BY104	Sr89/90	2/6/76	RAT-BY104-2	1.45	201	uCi/l	P	Supernate	Braun	Sr89/90	7.44E+06	4.72E+06	
C102	Sr90	9/26/75	T-8306	1.136	744	uCi/gal	L	No solids	RAW	Sr89/90	7.27E+06	4.58E+06	
C102	Sr89/90	9/26/75	T-8306	1.136	744	uCi/gal	P	Supernate	Braun	Sr89/90	7.27E+06	4.58E+06	
T101	Sr90	6/2/93	R-2846		0.128	uCi/ml	P	Supernatant	RAW	Sr89/90	4.74E+06	4.56E+06	
T107	Sr90	3/1/93	B08V58	1.2	0.127	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	4.70E+06	4.50E+06	
BY106	Sr90	6/3/91	R-8093	1.47	130	uCi/L	P	supernatant	RAW	Sr89/90	4.81E+06	4.41E+06	
BY106	Sr89/90	6/3/91	R-8093	1.47	130	uCi/l	P	Supernate	Braun	Sr89/90	4.81E+06	4.41E+06	
T109	Sr90						L		TRAC	Sr89/90	6.08E+06	4.34E+06	
TY105	Sr90						L		TRAC	Sr89/90	5.98E+06	4.27E+06	
T107	Sr90	3/1/93	B08V58	1.2	0.118	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	4.37E+06	4.18E+06	
TX113	Sr90						L		TRAC	Sr89/90	5.63E+06	4.02E+06	
BY106	Sr90	11/20/90			120	uCi/L	P	supernatant	RAW	Sr89/90	4.44E+06	4.02E+06	
TX115	Sr90						L		TRAC	Sr89/90	5.60E+06	4.00E+06	
BY109	Sr90	6/3/91	R8084	1.3	116	uCi/L	P	supernatant	RAW	Sr89/90	4.29E+06	3.94E+06	
BY106	Sr90	6/3/91	R-8083	1.46	110	uCi/l	P	Supernate	Braun	Sr89/90	4.07E+06	3.73E+06	
BY106	Sr90	6/3/91	R-8083	1.46	110	uCi/L	P	supernatant	RAW	Sr89/90	4.07E+06	3.73E+06	
BY106	Sr89/90	6/3/91					L	Drainable Liquid	Wastren	Sr89/90	4.07E+06	3.73E+06	
TY104	Sr90	6/30/87	211DOOXD	1.21	111	uCi/l	L	Drainable Liquor	RAW	Sr89/90	4.11E+06	3.43E+06	
SX101	Sr90	10/29/80	RAT-SX101-1	1.02	127	uCi/l	P	Supernate	Braun	Sr89/90	4.70E+06	3.34E+06	
SX101	Sr90	10/29/80		1.02	127	uCi/L	L	Clear solution,shallow	RAW	Sr89/90	4.70E+06	3.34E+06	
TY104	Sr89/90	8/12/85					P	Supernate	Wastren	Sr89/90	4.11E+06	3.28E+06	
TY104	Sr90	8/12/85	232DOOOO	1.21	111	uCi/l	L	Liquor	Braun	Sr89/90	4.11E+06	3.28E+06	
TX118	Sr89/90	10/16/81					P	Supernate	Wastren	Sr89/90	4.22E+06	3.07E+06	
TX118	Sr90	10/16/81			114	uCi/L	P	Supernatant	RAW	Sr89/90	4.22E+06	3.07E+06	
TX118	Sr89/90	10/16/81	RAT-TX118-4		114	uCi/l	P	Supernate	Braun	Sr89/90	4.22E+06	3.07E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
B103	Sr90	9/8/75	T-7809	1.1253	485	uCi/gal	L	no solids	RAW	Sr89/90	4.74E+06	2.98E+06	
BX107	Sr90						L		TRAC	Sr89/90	3.99E+06	2.85E+06	
B103	Sr90	5/9/75	T-4298	1.117	440	uCi/gal	L	no solids	RAW	Sr89/90	4.30E+06	2.68E+06	
B103	Sr89/90	5/9/75	T-4298	1.117	440	uCi/gal	P	Supernate	Braun	Sr89/90	4.30E+06	2.68E+06	
B103	Sr89/90	5/9/75					P	Supernate	Wastren	Sr89/90	4.30E+06	2.68E+06	
TY104	Sr90	8/6/85	241D0000	1.18	88.5	uCi/l	L	Liquor	Braun	Sr89/90	3.27E+06	2.61E+06	
TY104	Sr90	6/30/87	211D00XD	1.16	82.8	uCi/l	L	Drainable Liquor	RAW	Sr89/90	3.06E+06	2.56E+06	
S101	Sr90	9/13/74	8084	1.205	409	uCi/gal	L	No Solid	RAW	Sr89/90	4.00E+06	2.46E+06	
S101	Sr89/90	9/13/74	T-8084	1.205	409	uCi/gal	P	Supernate	Braun	Sr89/90	4.00E+06	2.46E+06	
TY104	Sr90	8/6/85	211D0000	1.16	82.8	uCi/l	L	Liquor	Braun	Sr89/90	3.06E+06	2.44E+06	
BX105	Sr90	2/11/76	T-2325	1.369	344	uCi/gal	L	no solids	RAW	Sr89/90	3.36E+06	2.14E+06	
BX105	Sr90	1/14/75	T-1437	1.2034	350	uCi/gal	L	no solids	RAW	Sr89/90	3.42E+06	2.12E+06	
BX105	Sr89/90	1/14/75	T-1437	1.2034	350	uCi/gal	L	Liquor	Braun	Sr89/90	3.42E+06	2.12E+06	
TY104	Sr90	7/1/87	241DXXXX		68.5	uCi/l	L	Drainable Liquor	RAW	Sr89/90	2.53E+06	2.12E+06	
TX116	Sr90						L		TRAC	Sr89/90	2.65E+06	1.89E+06	
BX107	Sr90	3/16/90	R6038	1.22	57.1	uCi/L	P	supernate liquid	RAW	Sr89/90	2.11E+06	1.88E+06	
BX107	Sr89/90	3/16/90	R-6038	1.22	57.1	uCi/l	P	Supernate	Braun	Sr89/90	2.11E+06	1.88E+06	
BX107	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	2.11E+06	1.88E+06	
SX111	Sr90	9/12/75		1.21	80.3	uCi/L	P	Supernatant	RAW	Sr89/90	2.97E+06	1.87E+06	
SX111	Sr89/90	8/1/75	RAT-SX111-1	1.21	80.3	uCi/l	P	Supernate	Braun	Sr89/90	2.97E+06	1.86E+06	
SX111	Sr89/90	8/1/75	RAT-SX111-1	1.45	80.3	uCi/l	P	Supernate	Braun	Sr89/90	2.97E+06	1.86E+06	
T101	Sr90	8/1/89		1.2	50.4	uCi/L	P	Supernatant	RAW	Sr89/90	1.86E+06	1.64E+06	
T101	Sr89/90	8/1/89	RAT-T101-1	1.2	50.4	uCi/l	P	Supernate	Braun	Sr89/90	1.86E+06	1.64E+06	
T101	Sr89/90	8/1/89					P	Supernate	Wastren	Sr89/90	1.86E+06	1.63E+06	
T107	Sr90	3/1/93	B08VB5	1.105	0.0455	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	1.68E+06	1.61E+06	
T107	Sr90	3/1/93	B08VB5	1.105	0.0443	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	1.64E+06	1.57E+06	
U111	Sr90	7/8/75	T-5957	1.1178	240	uCi/gal	L	No Solids	RAW	Sr89/90	2.35E+06	1.47E+06	
T108	Sr90						L		TRAC	Sr89/90	1.93E+06	1.38E+06	
TY104	Sr90						L		TRAC	Sr89/90	1.72E+06	1.23E+06	
C110	Sr90	4/23/92			0.0283	uCi/mL	L		RAW	Sr89/90	1.05E+06	9.82E+05	
C110	Sr90	4/23/92	B08VM5	1.0033333	0.0283	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	1.05E+06	9.82E+05	
C110	Sr90	4/23/92	B08VP9	1.1	0.0283	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	1.05E+06	9.82E+05	
C110	Sr90	4/23/92	B08VH6	1.1833333	0.0283	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	1.05E+06	9.82E+05	
BX103	Sr90	11/25/74	T-8630	1.063	157	uCi/gal	L	no solids	RAW	Sr89/90	1.53E+06	9.47E+05	
BX103	Sr89/90	11/25/74	T-8630	1.063	157	uCi/gal	P	Supernate	Braun	Sr89/90	1.53E+06	9.47E+05	
C110	Sr90	4/23/92			0.0272	uCi/mL	L		RAW	Sr89/90	1.01E+06	9.43E+05	
C110	Sr90	4/23/92	B08VM5	1.0033333	0.0272	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	1.01E+06	9.43E+05	
C110	Sr90	4/23/92	B08VP9	1.1	0.0272	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	1.01E+06	9.43E+05	
C110	Sr90	4/23/92	B08VH6	1.1833333	0.0272	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	1.01E+06	9.43E+05	
BX102	Sr90	1/27/70	T-83	1.03	164	uCi/gal	P	Supernate	Braun	Sr89/90	1.60E+06	8.81E+05	
SX104	Sr90	7/7/88		1.4	2.6E-05	Ci/L	O	Bottom sample 25% solid	RAW	Sr89/90	9.62E+05	8.23E+05	
C103	Sr90	6/3/91	R8109	1.06	24	uCi/L	P	supernate	RAW	Sr89/90	8.88E+05	8.15E+05	
C103	Sr90	6/3/91	R8108	1.07	24	uCi/L	P	supernate	RAW	Sr89/90	8.88E+05	8.15E+05	
SX111	Sr90	9/16/74		1.4836	133	uCi/gal	L	No solids	RAW	Sr89/90	1.30E+06	7.99E+05	
C204	Sr90						L		TRAC	Sr89/90	1.10E+06	7.85E+05	
TX117	Sr90						L		TRAC	Sr89/90	1.10E+06	7.83E+05	
BX111	Sr90	3/16/90	R6041	1.14	19.9	uCi/L	P	supernate	RAW	Sr89/90	7.36E+05	6.56E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information							Radionuclide Information						
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
BX111	Sr89/90	3/16/90	R-6041	1.44	19.9	uCi/l	P	Supernate	Braun	Sr89/90	7.36E+05	6.56E+05	
BX111	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	7.36E+05	6.56E+05	
C102	Sr90	6/3/91	R8089	1.15	19	uCi/L	P	supernate	RAW	Sr89/90	7.03E+05	6.45E+05	
C102	Sr89/90	6/3/91					P	Supernate	Wastren	Sr89/90	7.03E+05	6.45E+05	
C102	Sr89/90	6/3/91	R-8089	1.15	19	uCi/l	P	Supernate	Braun	Sr89/90	7.03E+05	6.45E+05	
C102	Sr90	11/20/90		1.15	19	uCi/L	L		RAW	Sr89/90	7.03E+05	6.37E+05	
TX105	Sr89/90	1/21/74	T-805		28.3	uCi/l	L	Liquor	Braun	Sr89/90	1.05E+06	6.33E+05	
SX106	Sr90	12/6/74	T-8041	1.004	103	uCi/gal	L	No solids	RAW	Sr89/90	1.01E+06	6.22E+05	
SX106	Sr89/90	12/6/74	T-8041	1.004	103	uCi/gal	P	Supernate	Braun	Sr89/90	1.01E+06	6.22E+05	
BX110	Sr90	3/16/90	R6040	1.37	15	uCi/L	P	supernate	RAW	Sr89/90	5.55E+05	4.95E+05	
BX110	Sr89/90	3/16/90					P	Supernate	Wastren	Sr89/90	5.55E+05	4.95E+05	
BX110	Sr89/90	3/16/90	R-6040	1.37	15	uCi/l	P	Supernate	Braun	Sr89/90	5.55E+05	4.95E+05	
S106	Sr89/90	12/16/74	T-8035	1.5414	78.8	uCi/gal	P	Supernate	Braun	Sr89/90	7.70E+05	4.76E+05	
BY105	Sr90	6/3/91	R-8092	1.4	14	uCi/L	P	supernatant	RAW	Sr89/90	5.18E+05	4.75E+05	
BY105	Sr89/90	6/3/91					L	Drainable Liquid	Wastren	Sr89/90	5.18E+05	4.75E+05	
BY105	Sr89/90	6/3/91	R-8092	1.4	14	uCi/l	P	Supernate	Braun	Sr89/90	5.18E+05	4.75E+05	
BY105	Sr90	6/3/91	R-8082	1.38	13	uCi/L	P	supernatant	RAW	Sr89/90	4.81E+05	4.41E+05	
BY105	Sr89/90	6/3/91	R-8082	1.38	13	uCi/l	P	Supernate	Braun	Sr89/90	4.81E+05	4.41E+05	
BX104	Sr90	10/29/74	T-9245	1.121	72.75	uCi/gal	L	no solids	RAW	Sr89/90	7.11E+05	4.38E+05	
BX104	Sr89/90	10/29/74	T-9245	1.121	72.75	uCi/gal	L	Liquor	Braun	Sr89/90	7.11E+05	4.38E+05	
BY105	Sr90	11/20/90			13	uCi/L	P	supernatant	RAW	Sr89/90	4.81E+05	4.36E+05	
TX118	Sr89/90	3/21/79	8385	1.089	17	uCi/l	P	Supernate	Braun	Sr89/90	6.29E+05	4.31E+05	
T107	Sr90	3/1/93	B08V16	1.02	0.0111	uCi/mL	L	DUPLICATE RESULT	TCD	Sr89/90	4.11E+05	3.93E+05	
T107	Sr90	3/1/93	B08V16	1.02	0.0105	uCi/mL	L	PRIMARY RESULT	TCD	Sr89/90	3.89E+05	3.72E+05	
S112	Sr90	1/7/74	T-181	1.1739	16.15	uCi/L	L	No solids	RAW	Sr89/90	5.98E+05	3.61E+05	
S112	Sr89/90	1/7/74	T-181	1.1739	16.15	uCi/l	P	Supernate	Braun	Sr89/90	5.98E+05	3.61E+05	
C204	Sr90	6/26/75	5625	0.9974	14.86	uCi/L	O	Other	RAW	Sr89/90	5.50E+05	3.44E+05	
C204	Sr89/90	6/26/75	T-5625	0.9974	14.86	uCi/l	P	Supernate	Braun	Sr89/90	5.50E+05	3.44E+05	
TY101	Sr90	12/6/82	T-3533	1.086	10.4	uCi/l	F	Filtrate	Braun	Sr89/90	3.85E+05	2.88E+05	
TY101	Sr90	12/6/82		1.086	10.4	uCi/L	P	Supernatant	RAW	Sr89/90	3.85E+05	2.88E+05	
C110	Sr90	6/3/91	8087	1.2	8.38	uCi/L	P	supernate	RAW	Sr89/90	3.10E+05	2.85E+05	
C110	Sr89/90	6/3/91	R-8087	1.2	8.38	uCi/l	P	Supernate	Braun	Sr89/90	3.10E+05	2.85E+05	
C110	Sr89/90	6/3/91					P	Supernate	Wastren	Sr89/90	3.10E+05	2.84E+05	
C110	Sr90	11/20/90			8	uCi/L	P	supernate	RAW	Sr89/90	2.96E+05	2.68E+05	
S107	Sr89/90	11/17/73	476	1.1592	44	uCi/gal	P	Supernate	Braun	Sr89/90	4.30E+05	2.59E+05	
S102	Sr89/90	11/16/73	RAT-S102-4	1.29	43	uCi/gal	P	Supernate	Braun	Sr89/90	4.20E+05	2.53E+05	
S102	Sr90	11/16/73	459	1.2927	11.31	uCi/L	O		RAW	Sr89/90	4.18E+05	2.52E+05	
S102	Sr89/90	11/16/73	T-459	1.2927	11.31	uCi/l	P	Supernate	Braun	Sr89/90	4.18E+05	2.52E+05	
S103	Sr89/90	10/5/73	T-9490	1.3517	11.24	uCi/l	P	Supernate	Braun	Sr89/90	4.16E+05	2.50E+05	
U109	Sr90						L		TRAC	Sr89/90	3.40E+05	2.43E+05	
C110	Sr90	6/19/75	T-5491	1.134	32.93	uCi/gal	L	no solids	RAW	Sr89/90	3.22E+05	2.01E+05	
C110	Sr89/90	6/19/75	T-5491	1.13	32.93	uCi/gal	P	Supernate	Braun	Sr89/90	3.22E+05	2.01E+05	
U108	Sr90						L		TRAC	Sr89/90	2.14E+05	1.53E+05	
C108	Sr90						L		TRAC	Sr89/90	2.04E+05	1.46E+05	
U108	Sr90	1/21/74	T-151	1.0056	4.54	uCi/L	L	No solids	RAW	Sr89/90	1.68E+05	1.02E+05	
U108	Sr89/90	1/21/74	T-151	1.0056	4.54	uCi/l	P	Supernate	Braun	Sr89/90	1.68E+05	1.02E+05	
C204	Sr89/90	6/26/75					P	Supernate	Wastren	Sr89/90	1.46E+05	9.14E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

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Tank Waste Characterization Sample Information								Radionuclide Information					
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
BX105	Sr90	10/16/75	T-8924	1.176	13.47	uCi/gal	L	no solids	RAW	Sr89/90	1.32E+05	8.30E+04	
BX105	Sr89/90	10/16/75	T-8924	1.176	13.47	uCi/gal	L	Liquor	Braun	Sr89/90	1.32E+05	8.30E+04	
S105	Sr89/90	10/5/73	T-9491	1.25	3.55	uCi/l	P	Supernate	Braun	Sr89/90	1.31E+05	7.89E+04	
U109	Sr90	11/12/75		1.24	3.15	uCi/L	P	Supernatant	RAW	Sr89/90	1.17E+05	7.36E+04	
U105	Sr90						L		TRAC	Sr89/90	1.01E+05	7.24E+04	
SX101	Sr89/90	4/26/89	R-4884	1.11	2.2	uCi/l	P	Supernate	Braun	Sr89/90	8.14E+04	7.10E+04	
U103	Sr90						L		TRAC	Sr89/90	7.85E+04	5.61E+04	
S102	Sr90	10/5/73	9488	1.2297	1.99	uCi/L	L	No Solid	RAW	Sr89/90	7.36E+04	4.42E+04	
S107	Sr89/90	11/6/73	178	1.14	7.5	uCi/gal	P	Supernate	Braun	Sr89/90	7.33E+04	4.41E+04	
S109	Sr90	10/5/73	T-9494	1.249	1.712	uCi/L	L	Clear	RAW	Sr89/90	6.33E+04	3.80E+04	
S109	Sr89/90	10/5/73	T-9494	1.249	1.71	uCi/l	P	Supernate	Braun	Sr89/90	6.33E+04	3.80E+04	
C112	Sr90						L		TRAC	Sr89/90	4.73E+04	3.38E+04	
A102	Sr89/90	3/14/89					P	Supernate	Wastren	Sr89/90	3.74E+04	3.25E+04	
S108	Sr90	10/5/73	T-9493	1.2455	1.22	uCi/L	L	Clear	RAW	Sr89/90	4.51E+04	2.71E+04	
S108	Sr89/90	10/5/73	T-9493	1.2455	1.22	uCi/l	P	Supernate	Braun	Sr89/90	4.51E+04	2.71E+04	
S106	Sr90	10/5/73		1.2262	1.05	uCi/L	L	Clear yellow	RAW	Sr89/90	3.89E+04	2.33E+04	
S106	Sr89/90	10/5/73	T-9492	1.2262	1.05	uCi/l	P	Supernate	Braun	Sr89/90	3.89E+04	2.33E+04	
B202	Sr90	10/6/75	T-8579	1.018	3.596	uCi/gal	L	no solids	RAW	Sr89/90	3.51E+04	2.21E+04	
B202	Sr89/90	10/6/75	T-8579	1.018	3.596	uCi/gal	P	Supernate	Braun	Sr89/90	3.51E+04	2.21E+04	
U202	Sr89/90	9/25/75					P	Supernate	Wastren	Sr89/90	3.48E+04	2.19E+04	
U202	Sr90	9/25/75	T-8245	1.144	3.56	uCi/gal	L	No Solids	RAW	Sr89/90	3.48E+04	2.19E+04	
U202	Sr89/90	9/25/75	T-8245	1.144	3.56	uCi/gal	P	Supernate	Braun	Sr89/90	3.48E+04	2.19E+04	
A105	Sr90						L		TRAC	Sr89/90	1.91E+04	1.36E+04	
U203	Sr90	9/25/75	8246	1.224	1.34	uCi/gal	L	No Solids	RAW	Sr89/90	1.31E+04	8.25E+03	
B109	Sr90	10/6/75	T-8578	1.282	0.218	uCi/gal	L	no solids	RAW	Sr89/90	2.13E+03	1.34E+03	
B109	Sr89/90	10/6/75	T-8578	1.282	0.218	uCi/gal	P	Supernate	Braun	Sr89/90	2.13E+03	1.34E+03	
B109	Sr89/90	10/6/75					P	Supernate	Wastren	Sr89/90	2.13E+03	1.34E+03	
SX101	Sr90	12/4/78	4523	1.76	0.0517	uCi/L	P	Supernatant	RAW	Sr89/90	1.91E+03	1.30E+03	
SX101	Sr89/90	12/4/78	4523	1.52	0.0517	uCi/l	P	Supernate	Braun	Sr89/90	1.91E+03	1.30E+03	
SX101	Sr89/90	12/4/78	4523	1.76	0.0517	uCi/l	P	Supernate	Braun	Sr89/90	1.91E+03	1.30E+03	
U204	Sr90	9/25/75	T-8247	1.064	0.0883	uCi/gal	L	No Solid	RAW	Sr89/90	8.63E+02	5.43E+02	
U204	Sr89/90	9/25/75	T-8247	1.064	0.0883	uCi/gal	P	Supernate	Braun	Sr89/90	8.63E+02	5.43E+02	
A106	Sr90						L		TRAC	Sr89/90	5.55E+02	3.97E+02	
TX107	Sr90						L		TRAC	Sr89/90	3.11E+02	2.22E+02	
U106	Sr90						L		TRAC	Sr89/90	1.16E+02	8.32E+01	
C104	Sr90						L		TRAC	Sr89/90	9.48E+01	6.78E+01	
U104	Sr90						L		TRAC	Sr89/90	3.65E+01	2.61E+01	
SX104	Sr90	7/7/88		1.414	4.8E-05	Ci/L	O	Topsample (10% solid)	RAW	Sr89/90	1.00E+01	8.56E+00	
TX104	Sr90						L		TRAC	Sr89/90	1.18E+01	8.45E+00	
S107	Sr90						L		TRAC	Sr89/90	8.93E+00	6.38E+00	
S102	Sr90						L		TRAC	Sr89/90	6.49E+00	4.64E+00	
S105	Sr90						L		TRAC	Sr89/90	1.43E+00	1.02E+00	
SX101	Sr90						L		TRAC	Sr89/90	6.15E-01	4.39E-01	
TY106	Sr90						L		TRAC	Sr89/90	6.09E-01	4.35E-01	
TX106	Sr90						L		TRAC	Sr89/90	1.46E-01	1.04E-01	
C102	Sr90						L		TRAC	Sr89/90	1.06E-01	7.54E-02	
C203	Sr90						L		TRAC	Sr89/90	6.01E-02	4.29E-02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Liquids [Sketch ES-VAL-CR19]
 ASA Value: 1.11E+10 Bq/L

Tank Waste Characterization Sample Information											
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide Information	
AX101	Sr90						L		TRAC	Sr89/90	5.14E-02
C110	Sr90						L		TRAC	Sr89/90	3.77E-02
S104	Sr90						L		TRAC	Sr89/90	1.11E-02
AX102	Sr90						L		TRAC	Sr89/90	3.32E-05
C202	Sr90						L		TRAC	Sr89/90	8.61E-07
BX101	Sr90						L		TRAC	Sr89/90	5.00E-10
T107	Sr90						L		TRAC	Sr89/90	2.30E-10
B101	Sr90						L		TRAC	Sr89/90	7.36E-21
											5.26E-21

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	ID
AX103	Sr89/90	9/19/74	RAT-AX103-1		224000000	Ci/l	G	Sludge	Braun	Sr89/90	8.29E+17	5.09E+17	9
TY102	Sr90	3/1/86	41X		4580	Ci/gal	S	SOLID	RAW	Sr89/90	4.48E+13	3.62E+13	6
AX104	Sr90						S		TRAC	Sr89/90		1.23E+13	4
AX104	Sr89/90	10/14/74	RAT-AX104-1	1.61	93.5	Ci/l	G	Sludge	Braun	Sr89/90	3.46E+12	2.13E+12	9
AX104	Sr90	10/14/74		1.61	93.5	Ci/L	G	sludge	RAW	Sr89/90	3.46E+12	2.13E+12	9
AX104	Sr90	10/14/74		1.61	93.5	Ci/L	G	sludge	RAW	Sr89/90	3.46E+12	2.13E+12	9
AX104	Sr90	7/10/74		1.609	93.5	Ci/L	G	sludge	RAW	Sr89/90	3.46E+12	2.12E+12	9
A102	Sr90	11/1/76	6159		81.6	Ci/L	G	sludge	RAW	Sr89/90	3.02E+12	1.95E+12	9
A102	Sr89/90	8/1/76	6159		81.6	Ci/l	G	Sludge	Braun	Sr89/90	3.02E+12	1.94E+12	9
ASA Value: 1.70E+12 Bq/L													
AX104	Sr89/90	9/15/77					G	Sludge	Wastren	Sr89/90	2.58E+12	1.70E+12	*
S104	Sr90	6/24/93	F-2171		288	ugm/gm	G	Sludge	Braun	Sr89/90	1.68E+12	1.62E+12	
A105	Sr90	1/12/72	RAT-A105-1B	1.54	48300	uCi/gm	S	Solids	Braun	Sr89/90	2.75E+12	1.59E+12	
A105	Sr90	1/12/72		1.22	48300	uCi/g	S	analysis 1c, dry solids	RAW	Sr89/90	2.18E+12	1.26E+12	
A105	Sr90	1/12/72		2.04	25700	uCi/g	S	analysis 2b, wet solids	RAW	Sr89/90	1.94E+12	1.12E+12	
A102	Sr90	11/1/76	6326		46.3	Ci/L	G	sludge	RAW	Sr89/90	1.71E+12	1.11E+12	
SX115	Sr89/90	3/10/75	RAT-SX115-1	1.55	479000000	uCi/l	G	Sludge	Braun	Sr89/90	1.77E+12	1.10E+12	
SX115	Sr90	3/10/75		0.55	479000000	uCi/L	S	Dry	RAW	Sr89/90	1.77E+12	1.10E+12	
A102	Sr89/90	8/1/76	6326		46.3	Ci/l	G	Sludge	Braun	Sr89/90	1.71E+12	1.10E+12	
SX115	Sr89/90	3/10/75					G	Sludge	Wastren	Sr89/90	1.77E+12	1.10E+12	
A102	Sr90	9/1/72			49.8	Ci/L	G	Sludge	RAW	Sr89/90	1.84E+12	1.08E+12	
A104	Sr90	10/4/74		1.64	439000000	uCi/L	G	Sludge	RAW	Sr89/90	1.62E+12	9.99E+11	
A104	Sr89/90	9/4/74	RAT-A104-1	1.64	439000000	uCi/l	G	Sludge	Braun	Sr89/90	1.62E+12	9.97E+11	
A104	Sr89/90	9/4/74					G	Sludge	Wastren	Sr89/90	1.62E+12	9.94E+11	
A102	Sr90	11/1/76	7279		40	Ci/L	G	sludge	RAW	Sr89/90	1.48E+12	9.57E+11	
A102	Sr89/90	8/1/76	7279		40	Ci/l	G	Sludge	Braun	Sr89/90	1.48E+12	9.51E+11	
A102	Sr90	11/1/76	6327		36	Ci/L	G	sludge	RAW	Sr89/90	1.33E+12	8.61E+11	
AX101	Sr89/90	8/16/76	T-5818		36	Ci/l	G	Sludge	Braun	Sr89/90	1.33E+12	8.57E+11	
AX101	Sr89/90	8/16/76	T-5819		36	Ci/l	G	Sludge	Braun	Sr89/90	1.33E+12	8.57E+11	
A102	Sr89/90	8/1/76	6327		36	Ci/l	G	Sludge	Braun	Sr89/90	1.33E+12	8.56E+11	
AX101	Sr89/90	8/16/76	T-6160		35.1	Ci/l	G	Sludge	Braun	Sr89/90	1.30E+12	8.35E+11	
A105	Sr90				22.1082031	Ci/L	S		HTCE Inv.	Sr89/90	8.18E+11	8.18E+11	
AX104	Sr90				22.1082031	Ci/L	S		HTCE Inv.	Sr89/90	8.18E+11	8.18E+11	
A102	Sr90	11/1/76	6038		34	Ci/L	G	sludge	RAW	Sr89/90	1.26E+12	8.13E+11	
A102	Sr89/90	8/1/76	6038		34	Ci/l	G	Sludge	Braun	Sr89/90	1.26E+12	8.08E+11	
A105	Sr90	1/12/72	RAT-A105-2	1.43	25700	uCi/gm	R	Slurry	Braun	Sr89/90	1.36E+12	7.83E+11	
A103	Sr90	11/1/72			32.3	Ci/L	G	sludge/hard bottom	RAW	Sr89/90	1.20E+12	7.02E+11	
TX118	Sr89/90	10/16/81	RAT-TX118-6		16100	uCi/gm	S	Supernate/Solids	Braun	Sr89/90	9.53E+11	6.94E+11	
AX101	Sr89/90	8/16/76	T-5817		28	Ci/l	G	Sludge	Braun	Sr89/90	1.04E+12	6.66E+11	
TX118	Sr90	10/16/81			15300	uCi/g	S	SOLIDS	RAW	Sr89/90	9.06E+11	6.60E+11	
AX102	Sr90	7/20/77	4095		270000000	uCi/L	G	sludge	RAW	Sr89/90	9.99E+11	6.57E+11	
AX101	Sr89/90	7/14/75	RAT-AX101-1	1.3	28.2	Ci/l	G	Sludge	Braun	Sr89/90	1.04E+12	6.54E+11	
AX101	Sr90	7/1/75			28.2	Ci/L	G	sludge	RAW	Sr89/90	1.04E+12	6.53E+11	
A105	Sr90	5/1/65			33	Ci/L	G	sludge	RAW	Sr89/90	1.22E+12	5.99E+11	
A103	Sr89/90	1/24/77	T-667		24	Ci/l	G	Sludge	Braun	Sr89/90	8.88E+11	5.77E+11	
A103	Sr89/90	1/24/77	T-90		24	Ci/l	G	Sludge	Braun	Sr89/90	8.88E+11	5.77E+11	
A103	Sr90	1/24/77	90		24	Ci/L	G	residual sludge	RAW	Sr89/90	8.88E+11	5.77E+11	
A103	Sr90	1/24/77	667		24	Ci/L	G	residual sludge	RAW	Sr89/90	8.88E+11	5.77E+11	
A103	Sr90	1/24/77	667		90	Ci/gal	G	residual sludge	RAW	Sr89/90	8.80E+11	5.72E+11	
A103	Sr90	1/24/77	90		90	Ci/gal	G	residual sludge	RAW	Sr89/90	8.80E+11	5.72E+11	
A103	Sr90	11/1/72			25.9	Ci/L	G	sludge/soft top	RAW	Sr89/90	9.58E+11	5.63E+11	
AX102	Sr90	7/20/77	3040		220000000	uCi/L	G	sludge	RAW	Sr89/90	8.14E+11	5.35E+11	
C105	Sr90	11/21/72			14900	uCi/g	G	sludge	RAW	Sr89/90	8.82E+11	5.19E+11	
AX103	Sr90	10/19/74			224000000	uCi/L	G	soft sludge	RAW	Sr89/90	8.29E+11	5.10E+11	
C105	Sr89/90	11/21/72	RAT-C105-1	1.52	14900	uCi/gm	G	Sludge	Braun	Sr89/90	8.38E+11	4.93E+11	
BX109	Sr90						S		TRAC	Sr89/90		4.73E+11	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
A105	Sr89/90	1/12/75					G	Sludge	Wastron	Sr89/90	7.64E+11	4.73E+11	
TY105	Sr90						S		TRAC	Sr89/90		4.49E+11	
A106	Sr89/90	10/5/77	JS-31	1.51	18000000	uCi/l	G	Sludge	Braun	Sr89/90	6.66E+11	4.40E+11	
A105	Sr90	1/12/72	RAT-A105-1A	1.54	13400	uCi/gm	S	Solids	Braun	Sr89/90	7.64E+11	4.40E+11	
C106	Sr89/90	10/10/74	RAT-C106-1		18800000	uCi/l	G	Sludge	Braun	Sr89/90	6.96E+11	4.28E+11	
C106	Sr90	10/10/74			18800000	uCi/L	G	sludge	RAW	Sr89/90	6.96E+11	4.28E+11	
C106	Sr90	1/6/75	RAT-C106-5		18300000	uCi/l	G	Sludge	Braun	Sr89/90	6.77E+11	4.19E+11	
A102	Sr90	5/31/63	RAT-A102-5		15000	uCi/gm	G	Sludge	Braun	Sr89/90	8.88E+11	4.16E+11	
A102	Sr90	5/31/63			15000	uCi/g	G	sludge	RAW	Sr89/90	8.88E+11	4.16E+11	
AX102	Sr90	7/20/77	2		15000000	uCi/L	G	sludge	RAW	Sr89/90	5.55E+11	3.65E+11	
AX102	Sr90	7/20/77	5403		15000000	uCi/L	G	sludge	RAW	Sr89/90	5.55E+11	3.65E+11	
A105	Sr90	1/12/72		1.22	13400	uCi/g	S	analysis 1a, dry solids	RAW	Sr89/90	6.05E+11	3.48E+11	
AX102	Sr90	7/20/77	3039		14000000	uCi/L	G	sludge	RAW	Sr89/90	5.18E+11	3.41E+11	
C106	Sr90	7/1/77	5	2.44	4959016	uCi/kg	O		RAW	Sr89/90	4.48E+11	2.94E+11	
A106	Sr89/90	10/5/77	JS-30	1.51	12000000	uCi/l	G	Sludge	Braun	Sr89/90	4.44E+11	2.93E+11	
C106	Sr89/90	1/24/77	RAT-C106-3	2.44	12100000	uCi/l	G	Sludge	Braun	Sr89/90	4.48E+11	2.91E+11	
C106	Sr90	1/24/77		2.44	12100000	uCi/L	G	sludge	RAW	Sr89/90	4.48E+11	2.91E+11	
A104	Sr90				7,66336849	Ci/L	S		HTCE Inv.	Sr89/90	2.84E+11	2.84E+11	
C203	Sr90						S		TRAC	Sr89/90		2.79E+11	
C112	Sr90	3/1/92	B08DM7	1.6	4950	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.93E+11	2.74E+11	
SX113	Sr90				7,1883412	Ci/L	S		HTCE Inv.	Sr89/90	2.66E+11	2.66E+11	
C112	Sr90	3/1/92	B08DM7	1.6	4770	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.82E+11	2.64E+11	
C106	Sr90				6,88393322	Ci/L	S		HTCE Inv.	Sr89/90	2.55E+11	2.55E+11	
C106	Sr90	9/18/80		1.365	6470	uCi/g	I	H2O insoluble Wt. %	RAW	Sr89/90	3.27E+11	2.32E+11	
C112	Sr90	3/1/92	B08DY1	2	3220	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.38E+11	2.23E+11	
A102	Sr90	11/1/76	5693		9.3	Ci/L	G	sludge	RAW	Sr89/90	3.44E+11	2.22E+11	
C112	Sr90	3/1/92	B08DY1	2	3200	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.37E+11	2.21E+11	
A102	Sr89/90	8/1/76	5693		9.3	Ci/l	G	Sludge	Braun	Sr89/90	3.44E+11	2.21E+11	
A103	Sr89/90	1/24/77	T-89		9	Ci/l	G	Sludge	Braun	Sr89/90	3.33E+11	2.16E+11	
A103	Sr90	1/24/77	89		9	Ci/L	G	residual sludge	RAW	Sr89/90	3.33E+11	2.16E+11	
A103	Sr90	1/24/77	89		34	Ci/gal	G	residual sludge	RAW	Sr89/90	3.32E+11	2.16E+11	
AX102	Sr89/90	9/25/74	RAT-AX102-2	1.57	9310000	uCi/l	G	Sludge	Braun	Sr89/90	3.44E+11	2.12E+11	
AX102	Sr90	9/25/74		1.57	9310000	uCi/L	G	sludge	RAW	Sr89/90	3.44E+11	2.12E+11	
TX109	Sr89/90	11/24/75	T-89	1.39	9	Ci/l	G	Sludge	Braun	Sr89/90	3.33E+11	2.10E+11	
B101	Sr90				5,51219522	Ci/L	S		HTCE Inv.	Sr89/90	2.04E+11	2.04E+11	
C105	Sr90	4/1/77		1.47	8130000	uCi/L	G	sludge	RAW	Sr89/90	3.01E+11	1.96E+11	
C105	Sr90	4/1/77		1.47	8130000	uCi/l	G	sludge	RAW	Sr89/90	3.01E+11	1.96E+11	
C105	Sr89/90	2/1/77	RAT-C105-3	1.47	8130000	uCi/l	G	Sludge	Braun	Sr89/90	3.01E+11	1.96E+11	
C112	Sr90	3/1/92	B08DT4	1.6	3510	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.08E+11	1.94E+11	
C109	Sr90	9/1/92	B08T15	1.2	4600	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.04E+11	1.93E+11	
A103	Sr89/90	1/24/77	T-732		8	Ci/l	G	Sludge	Braun	Sr89/90	2.96E+11	1.92E+11	
A103	Sr90	1/24/77	732		8	Ci/L	G	residual sludge	RAW	Sr89/90	2.96E+11	1.92E+11	
AX102	Sr90				5,20006699	Ci/L	S		HTCE Inv.	Sr89/90	1.92E+11	1.92E+11	
A103	Sr90	1/24/77	732		30	Ci/gal	G	residual sludge	RAW	Sr89/90	2.93E+11	1.91E+11	
C109	Sr90	9/1/92	B08T15	1.2	4510	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.00E+11	1.89E+11	
BX101	Sr90				4,72110183	Ci/L	S		HTCE Inv.	Sr89/90	1.75E+11	1.75E+11	
U107	Sr90						S		TRAC	Sr89/90		1.61E+11	
AX102	Sr90	7/20/77	1		6500000	uCi/L	G	sludge	RAW	Sr89/90	2.41E+11	1.58E+11	
C112	Sr90	3/1/92	B08DM7	1.6	2570	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.52E+11	1.42E+11	
C103	Sr90	5/7/86	F1XCOOXX	1.13	4160	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.74E+11	1.41E+11	
BY110	Sr90						S		TRAC	Sr89/90		1.39E+11	
SX110	Sr90				3,71011159	Ci/L	S		HTCE Inv.	Sr89/90	1.37E+11	1.37E+11	
C112	Sr90	3/1/92	B08DM7	1.6	2450	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.45E+11	1.35E+11	
TY104	Sr90						S		TRAC	Sr89/90		1.35E+11	
C109	Sr90				3,38861218	Ci/L	S		HTCE Inv.	Sr89/90	1.25E+11	1.25E+11	
C103	Sr90				3,06794684	Ci/L	S		HTCE Inv.	Sr89/90	1.14E+11	1.14E+11	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed				
A104	Sr90						S		TRAC	Sr89/90		1.11E+11				
A106	Sr90				2.96365042	Ci/L	S		HTCE Inv.	Sr89/90	1.10E+11	1.10E+11				
C109	Sr90	9/1/92	B08T17	1.2	2560	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.14E+11	1.07E+11				
C111	Sr90						S		TRAC	Sr89/90		1.04E+11				
AX103	Sr90				2.76352539	Ci/L	S		HTCE Inv.	Sr89/90	1.02E+11	1.02E+11				
SX111	Sr90				2.64800361	Ci/L	S		HTCE Inv.	Sr89/90	9.80E+10	9.80E+10				
C106	Sr90	5/1/87	3		1980000	uCi/kg	S		RAW	Sr89/90	1.17E+11	9.75E+10				
C106	Sr90	5/19/86			1980	uCi/g	S	Core, solid	RAW	Sr89/90	1.17E+11	9.53E+10				
C106	Sr90						S		TRAC	Sr89/90		9.41E+10				
C109	Sr90	9/1/92	B08T17	1.2	2230	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	9.90E+10	9.36E+10				
SX107	Sr90				2.49085548	Ci/L	S		HTCE Inv.	Sr89/90	9.22E+10	9.22E+10				
A101	Sr90						S		TRAC	Sr89/90		8.87E+10				
SX112	Sr90				2.39353715	Ci/L	S		HTCE Inv.	Sr89/90	8.86E+10	8.86E+10				
C106	Sr90	4/14/87		1.43	1980	uCi/g	S	solid	RAW	Sr89/90	1.05E+11	8.70E+10				
SX108	Sr90				2.33330006	Ci/L	S		HTCE Inv.	Sr89/90	8.63E+10	8.63E+10				
C106	Sr89/90	5/19/86					G	sludge	Wastren	Sr89/90	1.05E+11	8.54E+10				
C106	Sr90	5/19/86	G1XCOOXX	1.43	1980	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.05E+11	8.52E+10				
C112	Sr90	3/1/92	B08DM6	1.5	1640	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	9.10E+10	8.50E+10				
SX111	Sr90	9/12/75		1.45	3380000	uCi/L	G	SLUDGE	RAW	Sr89/90	1.25E+11	7.87E+10				
C103	Sr90	9/22/86		1.54	1680	uCi/g	I	core	RAW	Sr89/90	9.57E+10	7.85E+10				
SX111	Sr89/90	8/1/75	RAT-SX111-1	1.21	3380000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.25E+11	7.85E+10				
SX111	Sr89/90	8/1/75	RAT-SX111-1	1.45	3380000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.25E+11	7.85E+10				
SX111	Sr89/90	8/1/75					G	Sludge	Wastren	Sr89/90	1.25E+11	7.84E+10				
C103	Sr90	5/14/86	F2XCOOXX	1.54	1680	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	9.57E+10	7.78E+10				
C107	Sr89/90	8/2/77	T-8110-14		3100000	uCi/l	G	Sludge	Braun	Sr89/90	1.15E+11	7.55E+10				
C107	Sr89/90	8/2/77	T-8110-13		3000000	uCi/l	G	Sludge	Braun	Sr89/90	1.11E+11	7.31E+10				
C107	Sr90	8/2/77	JS#1112/ 1314		3000000	uCi/L	G	sludge	RAW	Sr89/90	1.11E+11	7.31E+10				
C109	Sr90	9/1/92	B08T63	1.6	1300	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	7.70E+10	7.28E+10				
SX112	Sr90						S		TRAC	Sr89/90		7.10E+10				
SX107	Sr89/90	1/29/77	1345	1.33	2930000	uCi/l	A	Salts	Braun	Sr89/90	1.08E+11	7.05E+10				
SX107	Sr90	1/29/77	1345	1.33	2930000	uCi/L	A	SALT	RAW	Sr89/90	1.08E+11	7.05E+10				
SX107	Sr89/90	1/29/77					G	Sludge	Wastren	Sr89/90	1.08E+11	7.02E+10				
A106	Sr90	1/5/88	A2XCXXX	1.54	1430	uCi/g	I	Core composite	RAW	Sr89/90	8.15E+10	6.89E+10				
TY105	Sr90	4/23/80			2.6	Ci/L	G	SLUDGE	RAW	Sr89/90	9.62E+10	6.76E+10				
TY105	Sr90	2/1/80		2.17	1200	uCi/g	G	SLUDGE	RAW	Sr89/90	9.63E+10	6.73E+10				
SX107	Sr90						S		TRAC	Sr89/90		6.64E+10				
A106	Sr89/90	3/13/86					G	Sludge	Wastren	Sr89/90	8.15E+10	6.60E+10				
A106	Sr90	3/13/86	A2XC00XX	1.54	1430	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	8.15E+10	6.60E+10				
C112	Sr90	3/1/92	B08DM7	1.6	1150	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	6.81E+10	6.36E+10				
C112	Sr90	3/1/92	B08DM7	1.6	1130	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	6.69E+10	6.25E+10				
C107	Sr89/90	9/26/77	T-510-33		2500000	uCi/l	G	Sludge	Braun	Sr89/90	9.25E+10	6.11E+10				
C107	Sr90	9/26/77	AL#3143/21144		2500000	uCi/L	S	solid	RAW	Sr89/90	9.25E+10	6.11E+10				
SX103	Sr89/90	4/11/75	RAT-SX103-1A	1.53	2630000	uCi/l	G	Sludge	Braun	Sr89/90	9.73E+10	6.06E+10				
SX103	Sr90	4/11/75		1.53	2630000	uCi/L	G	SLUDGE	RAW	Sr89/90	9.73E+10	6.06E+10				
C109	Sr90	9/1/92	B08T63	1.6	1050	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	6.22E+10	5.88E+10				
B101	Sr89/90	1/5/76	RAT-B101-1	1.59	2.5	Ci/l	G	Sludge	Braun	Sr89/90	9.25E+10	5.86E+10				
B101	Sr90	1/5/76		1.59	2.5	Ci/L	G	sludge	RAW	Sr89/90	9.25E+10	5.86E+10				
B101	Sr89/90	1/5/76					G	Sludge	Wastren	Sr89/90	9.25E+10	5.86E+10				
SX104	Sr89/90	6/19/74	RAT-SX104-1	1.62	2530000	uCi/l	G	Sludge	Braun	Sr89/90	9.36E+10	5.72E+10				
SX104	Sr90	6/19/74		1.62	2530000	uCi/L	S	Chunks, bottom layer	RAW	Sr89/90	9.36E+10	5.72E+10				
SX114	Sr90				1.5207136	Ci/L	S		HTCE Inv.	Sr89/90	5.63E+10	5.63E+10				
C107	Sr89/90	8/2/77	T-8110-11		2300000	uCi/l	G	Sludge	Braun	Sr89/90	8.51E+10	5.60E+10				
A102	Sr90	1/5/88	92XCXXX	1.66	1070	uCi/g	I	core composite	RAW	Sr89/90	6.57E+10	5.56E+10				
BX107	Sr90						S		TRAC	Sr89/90		5.40E+10				
BY111	Sr90						S		TRAC	Sr89/90		5.38E+10				
C107	Sr89/90	8/2/77	T-8110-12		2200000	uCi/l	G	Sludge	Braun	Sr89/90	8.14E+10	5.36E+10				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
C107	Sr90	8/2/77	JS#1112/ 1314		2200000	uCi/L	G	sludge	RAW	Sr89/90	8.14E+10	5.36E+10			
A102	Sr90	3/8/86	92XCOOXX	1.66	1070	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	6.57E+10	5.32E+10			
C102	Sr90						S		TRAC	Sr89/90		5.27E+10			
C112	Sr90	3/1/92	B08DM6	1.5	991	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	5.50E+10	5.14E+10			
T107	Sr90						S		TRAC	Sr89/90		5.13E+10			
B111	Sr90				1.37850546	Ci/L	S		HTCE Inv.	Sr89/90	5.10E+10	5.10E+10			
C104	Sr90				1.29210052	Ci/L	S		HTCE Inv.	Sr89/90	4.78E+10	4.78E+10			
TY105	Sr89/90	2/1/80	RAT-TY105-1	1.44	1201.18	uCi/gm	G	Sludge	Braun	Sr89/90	6.40E+10	4.47E+10			
S111	Sr90						S		TRAC	Sr89/90		4.37E+10			
A101	Sr89/90	4/1/76	3901	1.36	1850000	uCi/l	G	Sludge	Braun	Sr89/90	6.85E+10	4.36E+10			
A101	Sr90	4/1/76	3901		1850000	uCi/L	G	sludge	RAW	Sr89/90	6.85E+10	4.36E+10			
BX101	Sr89/90	3/8/76					G	Sludge	Wastren	Sr89/90	6.66E+10	4.24E+10			
BX101	Sr89/90	1/26/76	RAT-BX101-1	1.68	1.8	Ci/l	G	Sludge	Braun	Sr89/90	6.66E+10	4.23E+10			
BX101	Sr90	1/26/76		1.68	1.8	Ci/L	G	sludge	RAW	Sr89/90	6.66E+10	4.23E+10			
C105	Sr90	5/8/87	C1XCXXX	1.55	864	uCi/g	I	core	RAW	Sr89/90	4.96E+10	4.12E+10			
A106	Sr90	1/5/88	A1XCXXX	1.56	844	uCi/g	I	Core composite	RAW	Sr89/90	4.87E+10	4.12E+10			
C105	Sr89/90	4/11/86					G	sludge	Wastren	Sr89/90	4.96E+10	4.02E+10			
C105	Sr90	4/11/86	C1XCOOXX	1.55	864	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	4.96E+10	4.02E+10			
A106	Sr90	3/11/86	A1XCOOXX	1.56	844	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	4.87E+10	3.94E+10			
TX118	Sr90	10/16/81			854	uCi/g	S	SOLIDS	RAW	Sr89/90	5.06E+10	3.68E+10			
TY103	Sr90						S		TRAC	Sr89/90		3.67E+10			
C105	Sr90						S		TRAC	Sr89/90		3.44E+10			
SX115	Sr90						S		TRAC	Sr89/90		3.23E+10			
C112	Sr90				0.86673974	Ci/L	S		HTCE Inv.	Sr89/90	3.21E+10	3.21E+10			
B202	Sr89/90	12/4/78	2509	1.25	1010	uCi/gm	G	Sludge	Braun	Sr89/90	4.67E+10	3.18E+10			
B202	Sr90	12/4/78	2509	1.25	1010	uCi/g	S	acid fusion	RAW	Sr89/90	4.67E+10	3.18E+10			
SX102	Sr89/90	11/26/74	RAT-SX102-2A	1.74	1370000	uCi/l	G	Sludge	Braun	Sr89/90	5.07E+10	3.13E+10			
C112	Sr90						S		TRAC	Sr89/90		3.11E+10			
C112	Sr90	3/1/92	B08DW5	1.6	543	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	3.21E+10	3.00E+10			
S108	Sr90						S		TRAC	Sr89/90		2.95E+10			
BY107	Sr90						S		TRAC	Sr89/90		2.88E+10			
C107	Sr90				0.7745052	Ci/L	S		HTCE Inv.	Sr89/90	2.87E+10	2.87E+10			
SX109	Sr90				0.76040575	Ci/L	S		HTCE Inv.	Sr89/90	2.81E+10	2.81E+10			
U110	Sr90	11/30/89	89-073/4/5/6		534	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	3.16E+10	2.80E+10			
C107	Sr89/90	9/26/77	T-510-32		1100000	uCi/l	G	Sludge	Braun	Sr89/90	4.07E+10	2.69E+10			
C107	Sr90	9/26/77	AL#3143/15144		1100000	uCi/L	S	solid	RAW	Sr89/90	4.07E+10	2.69E+10			
C110	Sr89/90	8/31/77	T-9501-34		1080000	uCi/l	G	Sludge	Braun	Sr89/90	4.00E+10	2.64E+10			
C112	Sr90	3/1/92	B08DW5	1.6	472	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.79E+10	2.61E+10			
S104	Sr90				0.69683211	Ci/L	S		HTCE Inv.	Sr89/90	2.58E+10	2.58E+10			
U110	Sr90	12/15/89	89-070/1/2		480	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.84E+10	2.52E+10			
C104	Sr90						S		TRAC	Sr89/90		2.51E+10			
BY106	Sr90						S		TRAC	Sr89/90		2.51E+10			
S110	Sr89/90	8/9/74	RAT-S110-2	1.53	1090000	uCi/l	G	Sludge	Braun	Sr89/90	4.03E+10	2.47E+10			
S110	Sr90	8/9/74		1.53	1090000	uCi/L	G	Sludge	RAW	Sr89/90	4.03E+10	2.47E+10			
SX105	Sr90						S		TRAC	Sr89/90		2.41E+10			
S107	Sr90						S		TRAC	Sr89/90		2.37E+10			
S101	Sr90						S		TRAC	Sr89/90		2.35E+10			
S101	Sr89/90	6/4/75	RAT-S101-1	1.52	1010000	uCi/l	G	Sludge	Braun	Sr89/90	3.74E+10	2.34E+10			
S101	Sr90	6/4/75		1.52	1010000	uCi/l	S	Soft mud	RAW	Sr89/90	3.74E+10	2.34E+10			
SX101	Sr90				0.61561203	Ci/L	S		HTCE Inv.	Sr89/90	2.28E+10	2.28E+10			
U110	Sr90	12/1/89		1.3	534	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	2.57E+10	2.27E+10			
T104	Sr90						S		TRAC	Sr89/90		2.24E+10			
U110	Sr90	12/1/89		1.42	480	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	2.52E+10	2.23E+10			
SX111	Sr90						S		TRAC	Sr89/90		2.23E+10			
SX108	Sr90						S		TRAC	Sr89/90		2.21E+10			
U110	Sr90						S		TRAC	Sr89/90		2.19E+10			

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
ASA Value: 1.70E+12 Bq/L

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Tank	Reported Radionuclide	Date	Sample #	Density	Tank Waste Characterization Sample Information			Sample State	Source	Radionuclide Information		
					Unit	Reported Value	Code			Radionuclide	Bq/L	Decayed Bq/L
U110	Sr90	12/1/89		1.3	uCi/g	514	I	DUPLICATE	U110 - Core Data	Sr89/90	2.47E+10	2.19E+10
AX102	Sr90				Ci/L	0.58903345	S		HTCE Inv.	Sr89/90	2.18E+10	2.18E+10
BX104	Sr90	1/5/88	71XCXXX	1.85	uCi/g	375	I	Core composite		Sr89/90	2.57E+10	2.17E+10
U110	Sr90	12/1/89		1.42	uCi/g	460	I	DUPLICATE	U110 - Core Data	Sr89/90	2.42E+10	2.14E+10
B103	Sr90						S		TRAC	Sr89/90		2.14E+10
SX102	Sr90						S		TRAC	Sr89/90		2.10E+10
U110	Sr90	3/1/93			uCi/g	367	I	Core Composite, KOH Fusion		Sr89/90	2.17E+10	2.08E+10
BX104	Sr90	2/14/86	71XC00XX	1.85	uCi/gm	375	G	Sludge/Composite	RAW	Sr89/90	2.57E+10	2.07E+10
C112	Sr90	3/1/92	B08DN6	1.3	uCi/g	457	S	PRIMARY RESULT	Braun	Sr89/90	2.57E+10	2.05E+10
SX101	Sr90						S		TCD	Sr89/90		2.02E+10
C109	Sr90	9/1/92	B08T15	1.2	uCi/g	482	S	DUPLICATE RESULT	TRAC	Sr89/90	2.14E+10	2.02E+10
TX110	Sr90						S		TCD	Sr89/90		2.00E+10
S104	Sr90	8/2/92			uCi/g	356	S		TRAC	Sr89/90	2.11E+10	1.99E+10
S104	Sr90	8/1/92	B08TL3	1.6	uCi/g	356	S	DUPLICATE RESULT	RAW	Sr89/90	2.11E+10	1.99E+10
U110	Sr90	9/19/89	89-040/1		uCi/gm	371	G	Sludge/Composite	TCD	Sr89/90	2.20E+10	1.93E+10
S104	Sr90	8/2/92			uCi/g	345	S		Braun	Sr89/90	2.04E+10	1.93E+10
S104	Sr90	8/1/92	B08TJ5	1.6	uCi/g	345	S	DUPLICATE RESULT	RAW	Sr89/90	2.04E+10	1.93E+10
B111	Sr90	4/15/93	93-4312H1		uCi/gm	337	G	Sludge	TCD	Sr89/90	2.00E+10	1.91E+10
C109	Sr90	9/1/92	B08T15	1.2	uCi/g	456	S	PRIMARY RESULT	Braun	Sr89/90	2.02E+10	1.91E+10
C107	Sr90						S		TRAC	Sr89/90		1.90E+10
S104	Sr90	8/2/92			uCi/g	339	S		RAW	Sr89/90	2.01E+10	1.89E+10
S104	Sr90	8/1/92	B08TF7	1.6	uCi/g	339	S	PRIMARY RESULT	TCD	Sr89/90	2.01E+10	1.89E+10
S104	Sr89/90	4/13/90					G		Wastren	Sr89/90	2.12E+10	1.89E+10
C104	Sr89/90	8/23/77	9172-A		uCi/L	770000	G	Sludge		Sr89/90	2.85E+10	1.88E+10
C104	Sr90	8/23/77	9172		uCi/L	770000	G	Sludge	Braun	Sr89/90	2.85E+10	1.88E+10
U110	Sr90	12/1/89		1.54	uCi/g	372	I	DUPLICATE	RAW	Sr89/90	2.12E+10	1.88E+10
S104	Sr90	6/24/93	F-2177		uCi/gm	327	G	Sludge	U110 - Core Data	Sr89/90	1.94E+10	1.87E+10
B111	Sr90	10/1/91	B08XC0	1.6	uCi/g	337	S	PRIMARY RESULT	Braun	Sr89/90	2.00E+10	1.85E+10
SX102	Sr89/90	11/26/74	RAT-SX102-2B	1.9	uCi/L	798000	G	Sludge	TCD	Sr89/90	2.95E+10	1.82E+10
C110	Sr90						S		Braun	Sr89/90		1.72E+10
S104	Sr90	8/2/92			uCi/g	310	S		TRAC	Sr89/90	1.84E+10	1.73E+10
S104	Sr90	8/1/92	B08TF7	1.6	uCi/g	310	S	DUPLICATE RESULT	RAW	Sr89/90	1.84E+10	1.73E+10
S104	Sr90	8/1/92	B08TJ5	1.6	uCi/g	310	S	PRIMARY RESULT	TCD	Sr89/90	1.84E+10	1.73E+10
S104	Sr90	6/24/93	F-2175		uCi/gm	303	G	Sludge	TCD	Sr89/90	1.79E+10	1.69E+10
SX114	Sr90						S		Braun	Sr89/90	1.79E+10	1.73E+10
S104	Sr90	8/2/92			uCi/g	305	S		TRAC	Sr89/90	1.81E+10	1.70E+10
S104	Sr90	8/1/92	B08TJ4	1.6	uCi/g	305	S	PRIMARY RESULT	RAW	Sr89/90	1.81E+10	1.70E+10
S104	Sr90	8/2/92			uCi/g	303	S		TCD	Sr89/90	1.81E+10	1.70E+10
S104	Sr90	8/1/92	B08TL4	1.6	uCi/g	303	S	DUPLICATE RESULT	RAW	Sr89/90	1.79E+10	1.69E+10
S104	Sr90	8/2/92			uCi/g	300	S		TCD	Sr89/90	1.78E+10	1.68E+10
S104	Sr90	8/1/92	B08TJ4	1.6	uCi/g	300	S	DUPLICATE RESULT	RAW	Sr89/90	1.78E+10	1.68E+10
S104	Sr90						S		TCD	Sr89/90	1.77E+10	1.67E+10
S104	Sr90	8/2/92			uCi/g	299	S		TRAC	Sr89/90	1.77E+10	1.67E+10
S104	Sr90	8/1/92	B08TL3	1.6	uCi/g	299	S	PRIMARY RESULT	RAW	Sr89/90	1.77E+10	1.67E+10
B111	Sr90	10/1/91	B08XC1	1.6	uCi/g	304	S	DUPLICATE RESULT	TCD	Sr89/90	1.80E+10	1.66E+10
S104	Sr90	8/2/92			uCi/g	295	S		TCD	Sr89/90	1.75E+10	1.65E+10
S104	Sr90	8/1/92	B08TF6	1.6	uCi/g	295	S	PRIMARY RESULT	RAW	Sr89/90	1.75E+10	1.65E+10
BX102	Sr90						S		TCD	Sr89/90	1.75E+10	1.65E+10
U103	Sr89/90	4/16/76	RAT-U103-1	1.2278	uCi/L	686000	S	Supernate/Solids	TRAC	Sr89/90	2.54E+10	1.62E+10
U103	Sr89/90	4/16/76	RAT-U103-1	1.305	uCi/L	686000	S	Supernate/Solids	Braun	Sr89/90	2.54E+10	1.62E+10
U103	Sr90	4/16/76		1.2278	uCi/L	686000	G	SLUDGE	Braun	Sr89/90	2.54E+10	1.62E+10
B111	Sr90	10/1/91	B08XC1	1.6	uCi/g	294	S	PRIMARY RESULT	RAW	Sr89/90	1.74E+10	1.61E+10
U110	Sr90	12/1/89		1.675	uCi/g	291	I	PRIMARY RESULT	TCD	Sr89/90	1.80E+10	1.60E+10
S104	Sr90	8/2/92			uCi/g	281	S		U110 - Core Data	Sr89/90	1.66E+10	1.57E+10
S104	Sr90	8/1/92	B08TF6	1.6	uCi/g	281	S	DUPLICATE RESULT	RAW	Sr89/90	1.66E+10	1.57E+10
S107	Sr90				Ci/L	0.4241732	S		HTCE Inv.	Sr89/90	1.57E+10	1.57E+10

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
T103	Sr90						S		TRAC	Sr89/90		1.56E+10		
SX115	Sr90				0.42184258	Ci/L	S		HTCE Inv.	Sr89/90	1.56E+10	1.56E+10		
C112	Sr90	3/1/92	B08DN6	1.3	342	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.65E+10	1.54E+10		
B111	Sr90	10/1/91	B08XC0	1.6	279	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.65E+10	1.53E+10		
U110	Sr90	11/15/89	89-046/7/8/9		291	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.72E+10	1.52E+10		
S104	Sr90	8/2/92			272	uCi/g	S		RAW	Sr89/90	1.61E+10	1.52E+10		
S104	Sr90	8/1/92	B08TL4	1.6	272	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.61E+10	1.52E+10		
T106	Sr90	4/22/75		1.29	633000	uCi/L	G	SLUDGE	RAW	Sr89/90	2.34E+10	1.46E+10		
T106	Sr89/90	2/27/75	RAT-T106-1	1.29	633000	uCi/l	G	Sludge	Braun	Sr89/90	2.34E+10	1.45E+10		
TX115	Sr90						S		TRAC	Sr89/90		1.45E+10		
T106	Sr89/90	2/27/75					G	Sludge	Wastren	Sr89/90	2.34E+10	1.45E+10		
TY104	Sr89/90	9/18/80	RAT-TY104-2	1.57	351	uCi/gm	G	Sludge	Braun	Sr89/90	2.04E+10	1.45E+10		
T105	Sr90	5/28/93	B08WT3	0.9933333	407	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.50E+10	1.44E+10		
U110	Sr90	11/10/89	89-043/4/5		270	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.60E+10	1.41E+10		
S111	Sr90	12/16/74	T-8141	1.7953	2330000	uCi/gal	O		RAW	Sr89/90	2.28E+10	1.41E+10		
T105	Sr90	5/28/93	B08WT3	0.9933333	395	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.45E+10	1.40E+10		
S101	Sr90				0.37610061	Ci/L	S		HTCE Inv.	Sr89/90	1.39E+10	1.39E+10		
C104	Sr89/90	8/23/77	9172-B		560000	uCi/l	G	Sludge	Braun	Sr89/90	2.07E+10	1.37E+10		
C104	Sr90	8/23/77	9172		560000	uCi/l	G	sludge	RAW	Sr89/90	2.07E+10	1.37E+10		
U110	Sr90	12/1/89		1.54	270	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	1.54E+10	1.36E+10		
U110	Sr90	12/3/89	89-077/8/9/0		258	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.53E+10	1.35E+10		
U110	Sr90	12/1/89		1.675	246	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	1.52E+10	1.35E+10		
S110	Sr89/90	8/9/74	RAT-S110-1	1.7	595000	uCi/l	G	Sludge	Braun	Sr89/90	2.20E+10	1.35E+10		
S110	Sr90	8/9/74		1.7	595000	uCi/L	G	Sludge	RAW	Sr89/90	2.20E+10	1.35E+10		
C104	Sr90	4/15/86	D1XCOOXX	1.21	370	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.66E+10	1.34E+10		
TY105	Sr90	9/18/80			310	uCi/g	G	SLUDGE	RAW	Sr89/90	1.84E+10	1.30E+10		
TY104	Sr90	9/18/80		1.41	351	uCi/g	G	SLUDGE	RAW	Sr89/90	1.83E+10	1.30E+10		
U110	Sr90	12/1/89		1.04	371	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	1.43E+10	1.26E+10		
U110	Sr90	12/1/89		1.48	258	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	1.41E+10	1.25E+10		
TY106	Sr90	9/4/85		1.34	314.56	uCi/g	I	Core Composite	RAW	Sr89/90	1.56E+10	1.25E+10		
S110	Sr90	10/22/74			543000	uCi/L	G	Sludge	RAW	Sr89/90	2.01E+10	1.24E+10		
TY106	Sr90						S		TRAC	Sr89/90		1.21E+10		
U110	Sr90	12/1/89		1.04	356	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	1.37E+10	1.21E+10		
AX101	Sr90				0.32470089	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
BX104	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
BX105	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
BX106	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
C201	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
C202	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
C203	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
C204	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
U101	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
U104	Sr90				0.32423736	Ci/L	S		HTCE Inv.	Sr89/90	1.20E+10	1.20E+10		
B111	Sr90	10/1/91	B08XC3	1.6	219	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.30E+10	1.20E+10		
T102	Sr90	3/1/93	B08732	1.3166667	256	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.25E+10	1.19E+10		
U110	Sr90	12/1/89		1.48	246	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	1.35E+10	1.19E+10		
TY104	Sr90	6/30/87	241S0000	1.77	215	uCi/g	G	SLUDGE	RAW	Sr89/90	1.41E+10	1.18E+10		
TY105	Sr89/90	9/18/80	RAT-TY105-2	1.44	310.877	uCi/gm	G	Sludge	Braun	Sr89/90	1.66E+10	1.18E+10		
B111	Sr90	10/1/91	B08XC3	1.6	207	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.23E+10	1.13E+10		
TY104	Sr90	8/6/85	241S0000	1.77	215	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.41E+10	1.12E+10		
C112	Sr90	3/1/92	B08DN8	1.6	203	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.20E+10	1.12E+10		
BX105	Sr90	1/5/88	81XCXXXX	1.58	227	uCi/g	I	Core composite	RAW	Sr89/90	1.33E+10	1.12E+10		
BY108	Sr90						S		TRAC	Sr89/90		1.12E+10		
U105	Sr89/90	3/9/76	RAT-U105-1	1.52	466000	uCi/l	G	Sludge	Braun	Sr89/90	1.72E+10	1.10E+10		
U105	Sr90	3/9/76		1.52	466000	uCi/L	G	SLUDGE	RAW	Sr89/90	1.72E+10	1.10E+10		
TY105	Sr90	9/13/85	61XC0000		229	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.36E+10	1.08E+10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
TY104	Sr90	6/30/87	261S0000	1.48	236	uCi/g	G	SLUDGE	RAW	Sr89/90	1.29E+10	1.08E+10	
C112	Sr90	3/1/92	B08DN8	1.6	195	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.15E+10	1.08E+10	
T105	Sr90	5/28/93	B08WT4	1.745	173	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.12E+10	1.08E+10	
BX105	Sr90	3/3/86	81XC00XX	1.58	227	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.33E+10	1.07E+10	
T107	Sr90	3/1/93	B08V39	1.57	192	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	1.12E+10	1.07E+10	
C109	Sr90	9/1/92	B08T69	1.6	190	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	1.12E+10	1.06E+10	
C109	Sr90	9/1/92	B08T69	1.6	190	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.12E+10	1.06E+10	
B110	Sr90	4/1/90		1.36	235.585586	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	1.19E+10	1.06E+10	
BX102	Sr90				0.28370769	Ci/L	S		HTCE Inv.	Sr89/90	1.05E+10	1.05E+10	
T107	Sr90	3/1/93	B08V39	1.57	188	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.09E+10	1.05E+10	
BX103	Sr90				0.28240028	Ci/L	S		HTCE Inv.	Sr89/90	1.04E+10	1.04E+10	
TY105	Sr89/90	9/13/85					G	Sludge	Wastren	Sr89/90	1.30E+10	1.04E+10	
TY105	Sr90	9/13/85	61XC0000	1.53	229	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.30E+10	1.04E+10	
TY105	Sr90	8/1/85	61XC00XX	1.53	229	uCi/g	I	Core Composite	RAW	Sr89/90	1.30E+10	1.03E+10	
TY104	Sr90	8/16/85	261S0000	1.48	236	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.29E+10	1.03E+10	
TY104	Sr89/90	8/16/85					G	Sludge	Wastren	Sr89/90	1.29E+10	1.03E+10	
T102	Sr90	3/1/93	B08732	1.3166667	220	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	1.07E+10	1.03E+10	
SX106	Sr90	3/31/77		1.6	424000	uCi/L	S	Solids	RAW	Sr89/90	1.57E+10	1.02E+10	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.45	424000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.57E+10	1.02E+10	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.58	424000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.57E+10	1.02E+10	
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.6	424000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.57E+10	1.02E+10	
Minimum Plot Limit: 1.00E+10 Bq/L													
T107	Sr90	3/1/93	B08V43	1.15	244	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.04E+10	9.93E+09	
T107	Sr90	3/1/93	B08V43	1.15	240	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	1.02E+10	9.77E+09	
C109	Sr90	9/1/92	B08T15	1.2	231	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.03E+10	9.70E+09	
T108	Sr90						S		TRAC	Sr89/90		9.64E+09	
B111	Sr90	4/15/93	93-4316H1		169	uCi/gm	G	Sludge	Braun	Sr89/90	1.00E+10	9.60E+09	
B111	Sr90	10/1/91	B08XC2	1.6	175	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	1.04E+10	9.58E+09	
B110	Sr90	4/1/90		1.36	212.612613	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	1.07E+10	9.55E+09	
U105	Sr89/90	12/4/78	RAT-U105-3	1.62	229	uCi/gm	A	Salts	Braun	Sr89/90	1.37E+10	9.33E+09	
U105	Sr89/90	12/14/78					K	Saltcake	Wastren	Sr89/90	1.37E+10	9.32E+09	
SX110	Sr90						S		TRAC	Sr89/90		9.31E+09	
B111	Sr90	10/1/91	B08XC2	1.6	169	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	1.00E+10	9.25E+09	
BY104	Sr89/90	11/12/92					K	Saltcake	Wastren	Sr89/90	9.62E+09	9.14E+09	
TY106	Sr90	9/4/85		1.31	234.999	uCi/g	I	Core Composite	RAW	Sr89/90	1.14E+10	9.11E+09	
T105	Sr90	5/28/93	B08WT4	1.745	146	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	9.43E+09	9.07E+09	
C101	Sr90						S		TRAC	Sr89/90		9.06E+09	
S110	Sr90				0.24445237	Ci/L	S		HTCE Inv.	Sr89/90	9.04E+09	9.04E+09	
T107	Sr90	3/1/93	B08V44	1.1	232	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	9.44E+09	9.04E+09	
T107	Sr90	3/1/93	B08VD8	1.42	179	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	9.40E+09	9.00E+09	
S104	Sr89/90	1/9/76	RAT-S104-1	1.21	0.38	Ci/l	G	Sludge	Braun	Sr89/90	1.41E+10	8.91E+09	
S104	Sr89/90	1/9/76	RAT-S104-2	1.21	0.38	Ci/l	G	Sludge	Braun	Sr89/90	1.41E+10	8.91E+09	
S104	Sr90	1/9/76		1.21	0.38	Ci/L	S	Stiff dough	RAW	Sr89/90	1.41E+10	8.91E+09	
BX108	Sr90						S		TRAC	Sr89/90		8.80E+09	
T107	Sr90	3/1/93	B08V43	1.15	212	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	9.02E+09	8.83E+09	
T107	Sr90	3/1/93	B08V44	1.1	221	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	8.99E+09	8.81E+09	
SX104	Sr90				0.23221953	Ci/L	S		HTCE Inv.	Sr89/90	8.59E+09	8.59E+09	
TY104	Sr90	9/18/80		1.41	232	uCi/g	G	SLUDGE	RAW	Sr89/90	1.21E+10	8.59E+09	
C109	Sr90	9/1/92	B08T17	1.2	202	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	8.97E+09	8.48E+09	
BX104	Sr90	1/5/88	72XCXXXX	1.76	154	uCi/g	I	Core composite	RAW	Sr89/90	1.00E+10	8.48E+09	
C109	Sr90	9/1/92	B08T15	1.2	199	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	8.84E+09	8.35E+09	
C109	Sr90	9/1/92	B08T17	1.2	197	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	8.75E+09	8.27E+09	
U105	Sr90	12/4/78		1.62	201.3	uCi/g	S	Solid(acid fusion)	RAW	Sr89/90	1.21E+10	8.20E+09	
C112	Sr90	3/1/92	B08DN8	1.6	148	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	8.76E+09	8.19E+09	
U102	Sr89/90	3/1/76	RAT-U102-1	1.27	346000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.28E+10	8.14E+09	
U102	Sr89/90	3/1/76	RAT-U102-1	1.38	346000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.28E+10	8.14E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed				
U102	Sr89/90	3/1/76	RAT-U102-1	1.6	346000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.28E+10	8.14E+09				
U102	Sr90	3/1/76		1.6	346000	uCi/l	S	Solids	RAW	Sr89/90	1.28E+10	8.14E+09				
U102	Sr89/90	3/1/76					G	Sludge	Wastren	Sr89/90	1.28E+10	8.14E+09				
BY104	Sr90	11/12/92	R-1773		143	uCi/gm	T	Crust	Braun	Sr89/90	8.47E+09	8.04E+09				
BY104	Sr90	10/26/92	riser 5		143	uCi/g	S	wet solids	RAW	Sr89/90	8.47E+09	8.03E+09				
C109	Sr90	9/1/92	B08T17	1.2	189	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	8.39E+09	7.93E+09				
C109	Sr90	9/1/92	B08T17	1.2	188	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	8.35E+09	7.89E+09				
T107	Sr90	3/1/93	B08V43	1.15	190	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	8.08E+09	7.74E+09				
BX104	Sr90	2/26/86	72XC00XX	1.673	154	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	9.53E+09	7.71E+09				
C112	Sr90	3/1/92	B08DN8	1.6	139	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	8.23E+09	7.69E+09				
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.45	317000	uCi/l	G	Sludge	Braun	Sr89/90	1.17E+10	7.64E+09				
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.58	317000	uCi/l	G	Sludge	Braun	Sr89/90	1.17E+10	7.64E+09				
SX106	Sr89/90	2/28/77	RAT-SX106-2	1.6	317000	uCi/l	G	Sludge	Braun	Sr89/90	1.17E+10	7.64E+09				
SX106	Sr90	2/28/77		1.58	317000	uCi/L	G	SLUDGE	RAW	Sr89/90	1.17E+10	7.64E+09				
T107	Sr90	3/1/93	B08VD8	1.42	151	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	7.93E+09	7.59E+09				
SX109	Sr90						S		TRAC	Sr89/90		7.58E+09				
T107	Sr90	3/1/93	B08VD2	1.6	132	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	7.81E+09	7.48E+09				
T107	Sr90	3/1/93	B08VD2	1.6	131	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	7.76E+09	7.42E+09				
TY106	Sr90	7/8/87	161C0000	1.43	164	uCi/g	S	SOLID	RAW	Sr89/90	8.68E+09	7.25E+09				
C109	Sr90	9/1/92	B08T16	1.3	159	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	7.65E+09	7.23E+09				
T107	Sr90	3/1/93	B08TZ2	1.2872727	155	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	7.38E+09	7.06E+09				
TY106	Sr89/90	9/26/85					G	Sludge	Wastren	Sr89/90	8.68E+09	6.95E+09				
TY106	Sr90	9/26/85	161C0000	1.43	164	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	8.68E+09	6.95E+09				
T107	Sr90	3/1/93	B08TZ2	1.2872727	150	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	7.14E+09	6.84E+09				
B110	Sr90				0.18367639	Ci/L	S		HTCE Inv.	Sr89/90	6.80E+09	6.80E+09				
SX105	Sr90				0.17941223	Ci/L	S		HTCE Inv.	Sr89/90	6.64E+09	6.64E+09				
C109	Sr90	9/1/92	B08T16	1.3	144	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	6.93E+09	6.55E+09				
A102	Sr90	2/24/87	91XCXXXX	1.52	138	uCi/g	I	core composite	RAW	Sr89/90	7.76E+09	6.43E+09				
A102	Sr90	3/6/86	91XC00XX	1.52	138	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	7.76E+09	6.28E+09				
B107	Sr90						S		TRAC	Sr89/90		6.17E+09				
B110	Sr90	4/1/90		1.36	136.936937	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	6.89E+09	6.15E+09				
TY103	Sr90	8/21/85	31XC0000	1.7	115	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	7.23E+09	5.78E+09				
C109	Sr90	9/1/92	B08T16	1.3	127	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	6.11E+09	5.78E+09				
TY103	Sr89/90	8/21/85					G	Sludge	Wastren	Sr89/90	7.23E+09	5.77E+09				
TY103	Sr90	6/30/87	32XC00XX	1.7	105	uCi/g	I	Core Composite	RAW	Sr89/90	6.60E+09	5.52E+09				
BY103	Sr90						S		TRAC	Sr89/90		5.50E+09				
SX103	Sr90				0.14515014	Ci/L	S		HTCE Inv.	Sr89/90	5.37E+09	5.37E+09				
SX106	Sr89/90	4/18/78	8301	1.37	155.5	uCi/gm	S	Supernate/Solids	Braun	Sr89/90	7.88E+09	5.28E+09				
TY103	Sr90	8/21/85	32XC0000	1.7	105	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	6.60E+09	5.27E+09				
S111	Sr90				0.14231845	Ci/L	S		HTCE Inv.	Sr89/90	5.27E+09	5.27E+09				
B110	Sr90	4/1/90		1.36	116.216216	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	5.85E+09	5.22E+09				
C109	Sr90	9/1/92	B08T16	1.3	114	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	5.48E+09	5.18E+09				
BY101	Sr90						S		TRAC	Sr89/90		5.15E+09				
SX106	Sr89/90	4/18/78	8301	1.33	155.5	uCi/gm	S	Supernate/Solids	Braun	Sr89/90	7.65E+09	5.12E+09				
U112	Sr90				0.13792118	Ci/L	S		HTCE Inv.	Sr89/90	5.10E+09	5.10E+09				
T107	Sr90	3/1/93	B08VF0	1.3833333	99.2	uCi/g	S	DUPLICATE RESULT	TCO	Sr89/90	5.08E+09	4.86E+09				
C106	Sr90	9/18/80		1.365	133	uCi/g	I	H2O soluble Wt. %	RAW	Sr89/90	6.72E+09	4.77E+09				
U105	Sr89/90	3/14/77	RAT-U105-2	1.72	189000	uCi/l	G	Sludge	Braun	Sr89/90	6.99E+09	4.56E+09				
U105	Sr90	3/14/77		1.72	189000	uCi/l	G	SLUDGE	RAW	Sr89/90	6.99E+09	4.56E+09				
T107	Sr90	3/1/93	B08VF0	1.3833333	92.5	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	4.73E+09	4.53E+09				
U103	Sr89/90	8/15/77	8793		180000	uCi/l	A	Salts	Braun	Sr89/90	6.66E+09	4.39E+09				
U103	Sr90	8/15/77	8793		180000	uCi/l	S	Solids	RAW	Sr89/90	6.66E+09	4.39E+09				
S111	Sr90	2/28/77		1.41	129	uCi/g	A	Salt	RAW	Sr89/90	6.73E+09	4.38E+09				
TY106	Sr90	7/8/87	111C0000	1.31	107	uCi/g	S	SOLID	RAW	Sr89/90	5.19E+09	4.33E+09				
T107	Sr90	3/1/93	B08VD9	1.305	92.2	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	4.45E+09	4.26E+09				
T107	Sr90	3/1/93	B08TZ3	0.95	126	uCi/g	S	PRIMARY RESULT	TCO	Sr89/90	4.43E+09	4.24E+09				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
T107	Sr90	3/1/93	B08TZ3	0.95	125	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.39E+09	4.20E+09		
TY106	Sr90	7/31/85	111C0000	1.31	107	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	5.19E+09	4.14E+09		
BY104	Sr89/90	2/6/76	RAT-BY104-1	1.61	174000	uCi/l	G	Sludge	Braun	Sr89/90	6.44E+09	4.09E+09		
C112	Sr90	3/1/92	B08DN8	1.6	70.9	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.20E+09	3.92E+09		
U103	Sr90	8/15/77	8793		160000	uCi/l	S	Solids	RAW	Sr89/90	5.92E+09	3.90E+09		
C112	Sr90	3/1/92	B08DN8	1.6	70.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.16E+09	3.89E+09		
T107	Sr90	3/1/93	B08VB9	1.19	92	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.05E+09	3.88E+09		
T107	Sr90	3/1/93	B08VD9	1.305	83.7	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.04E+09	3.87E+09		
SX106	Sr90	4/18/78		1.33	117	uCi/g	S	Solids(KOH Fusion)	RAW	Sr89/90	5.76E+09	3.85E+09		
C103	Sr90						S		TRAC	Sr89/90		3.80E+09		
U109	Sr89/90	11/12/75	RAT-U109-1	1.24	128.6	uCi/gm	G	Sludge	Braun	Sr89/90	5.90E+09	3.73E+09		
SX103	Sr89/90	10/10/77	1104	1.5	150000	uCi/l	S	Solids	Braun	Sr89/90	5.55E+09	3.67E+09		
SX103	Sr89/90	10/10/77	1104	2	150000	uCi/l	S	Solids	Braun	Sr89/90	5.55E+09	3.67E+09		
SX103	Sr89/90	10/10/77					G	Sludge	Wastren	Sr89/90	5.55E+09	3.67E+09		
TX109	Sr90						S		TRAC	Sr89/90		3.58E+09		
S110	Sr89/90	4/23/75	RAT-S110-3	1.9	81.1	uCi/gm	A	Salts	Braun	Sr89/90	5.70E+09	3.55E+09		
S110	Sr89/90	4/23/75					K	Saltcake	Wastren	Sr89/90	5.70E+09	3.55E+09		
U108	Sr90						S		TRAC	Sr89/90		3.55E+09		
BX109	Sr90				0.09357331	Ci/L	S		HTCE Inv.	Sr89/90	3.46E+09	3.46E+09		
B110	Sr90	4/1/90		1.34	77.4774775	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	3.84E+09	3.43E+09		
SX102	Sr90				0.09167113	Ci/L	S		HTCE Inv.	Sr89/90	3.39E+09	3.39E+09		
BY104	Sr90	11/12/92	R-1775		60	uCi/gm	T	Crust	Braun	Sr89/90	3.55E+09	3.37E+09		
BY104	Sr90	10/26/92	riser 10		60	uCi/g	S	wet solids	RAW	Sr89/90	3.55E+09	3.37E+09		
T107	Sr90	3/1/93	B08VB9	1.19	78.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	3.47E+09	3.32E+09		
C108	Sr90						S		TRAC	Sr89/90		3.27E+09		
U109	Sr89/90	11/12/75					G	Sludge	Wastren	Sr89/90	5.01E+09	3.16E+09		
U109	Sr89/90	11/12/75	RAT-U109-1	1.05	128.6	uCi/gm	G	Sludge	Braun	Sr89/90	5.00E+09	3.16E+09		
U109	Sr90	11/12/75		1.05	128.6	uCi/g	S	Small white crystal	RAW	Sr89/90	5.00E+09	3.16E+09		
SX102	Sr90	11/26/74		1.9	137000	uCi/L	G	Sludge(Bottomm)	RAW	Sr89/90	5.07E+09	3.13E+09		
S110	Sr90	4/23/75			81.1	uCi/g	A	Salt	RAW	Sr89/90	4.80E+09	2.99E+09		
U105	Sr89/90	10/6/77	968		120000	uCi/l	S	Solids	Braun	Sr89/90	4.44E+09	2.94E+09		
U105	Sr90	10/6/77	968		120000	uCi/l	S	Solids	RAW	Sr89/90	4.44E+09	2.94E+09		
C107	Sr90	9/26/77	AL#2303/2549		120000	uCi/L	S	middle	RAW	Sr89/90	4.44E+09	2.93E+09		
C108	Sr90				0.07863532	Ci/L	S		HTCE Inv.	Sr89/90	2.91E+09	2.91E+09		
S105	Sr90						S		TRAC	Sr89/90		2.79E+09		
BX103	Sr90						S		TRAC	Sr89/90		2.77E+09		
C101	Sr90				0.07088225	Ci/L	S		HTCE Inv.	Sr89/90	2.62E+09	2.62E+09		
S102	Sr89/90	10/15/75	T-8864	1.436	425000	uCi/gal	G	Sludge	Braun	Sr89/90	4.15E+09	2.62E+09		
S102	Sr90	10/15/75	8864	1.436	425000	uCi/gal	O		RAW	Sr89/90	4.15E+09	2.62E+09		
SX105	Sr90	10/4/74		1.71	114000	uCi/L	S	Hard chunk throughout	RAW	Sr89/90	4.22E+09	2.59E+09		
SX105	Sr89/90	6/1/74	RAT-SX105-1B	1.71	114000	uCi/l	G	Sludge	Braun	Sr89/90	4.22E+09	2.57E+09		
BX105	Sr90	1/5/88	82XCXXXX	1.79	45.9	uCi/g	I	Core composite	RAW	Sr89/90	3.04E+09	2.57E+09		
TX117	Sr90						S		TRAC	Sr89/90		2.56E+09		
A101	Sr90	11/11/80	RAT-A101-8		96000	uCi/l	R	Slurry	Braun	Sr89/90	3.55E+09	2.53E+09		
SX102	Sr90	4/18/75		1.88	58.2	uCi/g	S	Solid	RAW	Sr89/90	4.05E+09	2.52E+09		
A101	Sr90	11/11/80	RAT-A101-5A	1.85	95500	uCi/l	R	Slurry	Braun	Sr89/90	3.53E+09	2.52E+09		
A101	Sr90	11/10/80		1.85	95500	uCi/L	R	Total slurry	RAW	Sr89/90	3.53E+09	2.52E+09		
S102	Sr90						S		TRAC	Sr89/90		2.51E+09		
SX102	Sr89/90	4/18/75	RAT-SX102-1	1.88	109000	uCi/l	S	Supernate/Solids	Braun	Sr89/90	4.03E+09	2.51E+09		
SX102	Sr90	4/18/75		1.88	109000	uCi/L	S	Solid	RAW	Sr89/90	4.03E+09	2.51E+09		
C103	Sr90	5/1/75	T-4073	1.16	412000	uCi/gal	O	Other	RAW	Sr89/90	4.03E+09	2.51E+09		
BX105	Sr89/90	3/4/86					G	sludge	Wastren	Sr89/90	3.04E+09	2.46E+09		
BX105	Sr90	3/4/86	82XCOOXX	1.79	45.9	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	3.04E+09	2.46E+09		
C107	Sr89/90	9/26/77	T-510-23		100000	uCi/l	G	Sludge	Braun	Sr89/90	3.70E+09	2.44E+09		
C107	Sr90	9/26/77	AL#2303/2549		100000	uCi/L	S	middle	RAW	Sr89/90	3.70E+09	2.44E+09		
TY104	Sr90	6/30/87	251S0000	1.66	45.8	uCi/g	G	SLUDGE	RAW	Sr89/90	2.81E+09	2.35E+09		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
TY101	Sr90						S		TRAC	Sr89/90		2.34E+09		
A103	Sr90				0.06236482	Ci/L	S		HTCE Inv.	Sr89/90	2.31E+09	2.31E+09		
B108	Sr90						S		TRAC	Sr89/90		2.26E+09		
TY104	Sr90	8/14/85	251S0000	1.66	45.8	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.81E+09	2.25E+09		
S106	Sr90						S		TRAC	Sr89/90		2.24E+09		
S108	Sr90				0.05950614	Ci/L	S		HTCE Inv.	Sr89/90	2.20E+09	2.20E+09		
B110	Sr90	4/1/90		1.32	50	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	2.44E+09	2.18E+09		
B110	Sr90	4/1/90		1.32	50	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	2.44E+09	2.18E+09		
BY105	Sr90						S		TRAC	Sr89/90		2.11E+09		
B110	Sr90	4/1/90		1.34	47.2972973	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	2.35E+09	2.09E+09		
T107	Sr90	3/1/93	B08VR2	1.735	33.7	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.16E+09	2.07E+09		
BY112	Sr90	5/29/71			98400	uCi/L	T	crust	RAW	Sr89/90	3.64E+09	2.07E+09		
A103	Sr90	3/3/87	B2XCXXXX	1.35	49.2	uCi/g	I	Core composite	RAW	Sr89/90	2.46E+09	2.04E+09		
A103	Sr89/90	4/3/86					K	Saltcake	Wastren	Sr89/90	2.46E+09	1.99E+09		
A103	Sr90	4/3/86	B2XCOOXX	1.35	49.2	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.46E+09	1.99E+09		
A103	Sr90	2/24/87	B1XCOOXX	1.34	48.1	uCi/g	I	Core composite	RAW	Sr89/90	2.38E+09	1.98E+09		
BY108	Sr90				0.05328003	Ci/L	S		HTCE Inv.	Sr89/90	1.97E+09	1.97E+09		
S102	Sr90				0.05237407	Ci/L	S		HTCE Inv.	Sr89/90	1.94E+09	1.94E+09		
A103	Sr90	3/26/86	B1XCOOXX	1.34	48.1	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.38E+09	1.93E+09		
T107	Sr90	3/1/93	B08VR2	1.735	29.6	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.90E+09	1.82E+09		
A101	Sr90	10/11/83	7898	1.64	61100	uCi/L	R	Slurry	Braun	Sr89/90	2.26E+09	1.73E+09		
A101	Sr90	10/11/83	7898	1.6847	61100	uCi/L	R	Slurry	Braun	Sr89/90	2.26E+09	1.73E+09		
A101	Sr89/90	10/11/83					K	Saltcake	Wastren	Sr89/90	2.26E+09	1.73E+09		
BY112	Sr90	5/29/71			82100	uCi/L	G	sludge	RAW	Sr89/90	3.04E+09	1.72E+09		
TY104	Sr90	6/30/87	232S0000	1.85	29.5	uCi/g	G	SLUDGE	RAW	Sr89/90	2.02E+09	1.69E+09		
U107	Sr89/90	12/9/75					G	Sludge	Wastren	Sr89/90	2.61E+09	1.65E+09		
U107	Sr89/90	12/9/74	RAT-U107-1	1.14	70600	uCi/L	G	Sludge	Braun	Sr89/90	2.61E+09	1.61E+09		
TY104	Sr90	8/6/85	232S0000	1.85	29.5	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.02E+09	1.61E+09		
SX104	Sr89/90	2/14/77	RAT-SX104-2	1.39	47	uCi/gm	A	Salts	Braun	Sr89/90	2.42E+09	1.57E+09		
SX104	Sr90	2/14/77		1.39	47	uCi/g	A	SALT	RAW	Sr89/90	2.42E+09	1.57E+09		
U106	Sr90				0.03995342	Ci/L	S		HTCE Inv.	Sr89/90	1.48E+09	1.48E+09		
U102	Sr90				0.0391635	Ci/L	S		HTCE Inv.	Sr89/90	1.45E+09	1.45E+09		
TX116	Sr90						S		TRAC	Sr89/90		1.35E+09		
BY107	Sr90				0.03590786	Ci/L	S		HTCE Inv.	Sr89/90	1.33E+09	1.33E+09		
BX105	Sr90						S		TRAC	Sr89/90		1.32E+09		
C112	Sr90	3/1/92	B08DN8	1.6	23.8	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.41E+09	1.32E+09		
B102	Sr90				0.03473972	Ci/L	S		HTCE Inv.	Sr89/90	1.29E+09	1.29E+09		
A101	Sr90	8/22/80	T-2691	1.2814	48500	uCi/L	O	Other	RAW	Sr89/90	1.79E+09	1.27E+09		
SX106	Sr90	4/18/78		1.33	38.5	uCi/g	S	Solids(Water Soluble)	RAW	Sr89/90	1.89E+09	1.27E+09		
S112	Sr90				0.03385404	Ci/L	S		HTCE Inv.	Sr89/90	1.25E+09	1.25E+09		
BY105	Sr90				0.0337336	Ci/L	S		HTCE Inv.	Sr89/90	1.25E+09	1.25E+09		
U111	Sr90				0.03370836	Ci/L	S		HTCE Inv.	Sr89/90	1.25E+09	1.25E+09		
BY112	Sr90	4/4/72	RAT-BY112-3	1.44	40.3	uCi/gm	S	Solids	Braun	Sr89/90	2.15E+09	1.24E+09		
BY112	Sr90	4/1/72		1.44	40.3	uCi/g	S	bottom solids	RAW	Sr89/90	2.15E+09	1.24E+09		
B110	Sr90	4/1/90		1.36	27.3873874	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	1.38E+09	1.23E+09		
U107	Sr90				0.03285605	Ci/L	S		HTCE Inv.	Sr89/90	1.22E+09	1.22E+09		
S107	Sr89/90	10/16/78					G	Sludge	Wastren	Sr89/90	1.79E+09	1.21E+09		
U111	Sr90						S		TRAC	Sr89/90		1.20E+09		
C110	Sr90	9/9/77	9501		49000	uCi/L	S	sludge	RAW	Sr89/90	1.81E+09	1.20E+09		
C110	Sr89/90	8/31/77	T-9501-17		49000	uCi/L	G	Sludge	Braun	Sr89/90	1.81E+09	1.20E+09		
C201	Sr89/90	12/4/78	T-3421	1.16	40.82	uCi/gm	G	Sludge	Braun	Sr89/90	1.75E+09	1.19E+09		
C201	Sr90	12/4/78	3421	1.16	40.8	uCi/g	S	acid (fusion)	RAW	Sr89/90	1.75E+09	1.19E+09		
U102	Sr89/90	3/1/76	RAT-U102-1	1.27	50500	uCi/L	S	Solids	Braun	Sr89/90	1.87E+09	1.19E+09		
U102	Sr89/90	3/1/76	RAT-U102-1	1.38	50500	uCi/L	S	Solids	Braun	Sr89/90	1.87E+09	1.19E+09		
U102	Sr89/90	3/1/76	RAT-U102-1	1.6	50500	uCi/L	S	Solids	Braun	Sr89/90	1.87E+09	1.19E+09		
U102	Sr90	3/1/76		1.38	50500	uCi/L	S	Solids	RAW	Sr89/90	1.87E+09	1.19E+09		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
B110	Sr90	4/1/90		1.36	26.3963964	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	1.33E+09	1.19E+09		
BY101	Sr90				0.03099944	Ci/L	S		HTCE Inv.	Sr89/90	1.15E+09	1.15E+09		
BY102	Sr90						S		TRAC	Sr89/90		1.14E+09		
U105	Sr90	12/4/78		1.62	27.7	uCi/g	S	Solid(water soluble)	RAW	Sr89/90	1.66E+09	1.13E+09		
A101	Sr90	8/22/80	T-2692	1.3017	42700	uCi/L	O	Other	RAW	Sr89/90	1.58E+09	1.12E+09		
BY112	Sr90						S		TRAC	Sr89/90		1.11E+09		
BY104	Sr90				0.02994779	Ci/L	S		HTCE Inv.	Sr89/90	1.11E+09	1.11E+09		
S107	Sr89/90	7/1/74	RAT-S107-4	1.48	48400	uCi/l	G	Sludge	Braun	Sr89/90	1.79E+09	1.09E+09		
T107	Sr90	3/1/93	B08V44	1.1	28	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.14E+09	1.09E+09		
BY112	Sr90	4/4/72	RAT-BY112-1	1.48	34.2	uCi/gm	S	Solids	Braun	Sr89/90	1.87E+09	1.08E+09		
BY112	Sr90	4/1/72		1.48	34.2	uCi/g	S	top solids	RAW	Sr89/90	1.87E+09	1.08E+09		
BY112	Sr89/90	4/4/72					G	Sludge	Wastren	Sr89/90	1.87E+09	1.08E+09		
BY110	Sr90				0.02897923	Ci/L	S		HTCE Inv.	Sr89/90	1.07E+09	1.07E+09		
A101	Sr90				0.02878677	Ci/L	S		HTCE Inv.	Sr89/90	1.07E+09	1.07E+09		
T107	Sr90	3/1/93	B08VF0	1.3833333	21.4	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.10E+09	1.05E+09		
T107	Sr90	3/1/93	B08V44	1.1	26.9	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.09E+09	1.05E+09		
SX101	Sr89/90	12/4/78	4523	1.76	23.58	uCi/gm	A	Salts	Braun	Sr89/90	1.54E+09	1.04E+09		
BX110	Sr90						S		TRAC	Sr89/90		1.04E+09		
BY109	Sr90				0.02759467	Ci/L	S		HTCE Inv.	Sr89/90	1.02E+09	1.02E+09		
U105	Sr90				0.02723253	Ci/L	S		HTCE Inv.	Sr89/90	1.01E+09	1.01E+09		
A101	Sr90	1/3/84	7879		34900	uCi/L	R	Slurry	RAW	Sr89/90	1.29E+09	9.92E+08		
A101	Sr90	10/10/83	7879	1.3597	34900	uCi/l	R	Slurry	Braun	Sr89/90	1.29E+09	9.86E+08		
A101	Sr90	10/10/83	7879	1.3617	34900	uCi/l	R	Slurry	Braun	Sr89/90	1.29E+09	9.86E+08		
S107	Sr90	2/14/75		1.48	41900	uCi/L	S	granular crystals	RAW	Sr89/90	1.55E+09	9.82E+08		
T107	Sr90	3/1/93	B08VF0	1.3833333	19.6	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.00E+09	9.60E+08		
TY101	Sr90	9/18/80			22.3	uCi/g	G	SLUDGE	RAW	Sr89/90	1.32E+09	9.37E+08		
SX102	Sr89/90	3/18/76	RAT-SX102-3	1.829	21.2	uCi/gm	A	Salts	Braun	Sr89/90	1.43E+09	9.14E+08		
U110	Sr90				0.02462981	Ci/L	S		HTCE Inv.	Sr89/90	9.11E+08	9.11E+08		
SX101	Sr89/90	12/4/78	4523	1.52	23.58	uCi/gm	A	Salts	Braun	Sr89/90	1.33E+09	9.01E+08		
SX101	Sr90	12/4/78	4523	1.52	23.4	uCi/g	S	Solids	RAW	Sr89/90	1.32E+09	8.95E+08		
TX114	Sr90						S		TRAC	Sr89/90		8.91E+08		
BX112	Sr90	9/18/80			20.5	uCi/g	S	Water Insoluble	RAW	Sr89/90	1.21E+09	8.61E+08		
TY106	Sr90	9/4/85		1.27	22.839	uCi/g	I	Core Composite	RAW	Sr89/90	1.07E+09	8.58E+08		
U103	Sr90				0.02280351	Ci/L	S		HTCE Inv.	Sr89/90	8.44E+08	8.44E+08		
C112	Sr90	3/1/92	B08DN8	1.6	14.9	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	8.82E+08	8.24E+08		
SX105	Sr89/90	2/1/77					K	Saltcake	Wastren	Sr89/90	1.26E+09	8.20E+08		
SX105	Sr89/90	2/1/77	RAT-SX105-2	1.06	32	uCi/gm	A	Salts	Braun	Sr89/90	1.26E+09	8.16E+08		
SX105	Sr90	2/1/77		1.06	32	uCi/g	K	SALT CAKE	RAW	Sr89/90	1.26E+09	8.16E+08		
S111	Sr89/90	9/18/80					G	Sludge	Wastren	Sr89/90	1.13E+09	8.02E+08		
T107	Sr90	3/1/93	B08VF0	1.3833333	16.2	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	8.29E+08	7.93E+08		
S111	Sr89/90	8/25/78	1003/1004-C	1.86	16.4	uCi/gm	S	Solids	Braun	Sr89/90	1.13E+09	7.82E+08		
SX103	Sr89/90	9/17/76	RAT-SX103-3	0.84	38	uCi/gm	A	Salts	Braun	Sr89/90	1.18E+09	7.61E+08		
SX103	Sr90	9/17/76		0.84	38	uCi/g	A	SALT	RAW	Sr89/90	1.18E+09	7.61E+08		
T107	Sr90	3/1/93	B08VF0	1.3833333	15.1	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	7.73E+08	7.40E+08		
TY103	Sr89/90	2/1/80	RAT-TY103-2	1.5	18.97	uCi/gm	G	Sludge	Braun	Sr89/90	1.05E+09	7.36E+08		
S102	Sr90	6/20/75			120000	uCi/gal	S	Solid undetermined	RAW	Sr89/90	1.17E+09	7.34E+08		
S111	Sr89/90	9/18/80	RAT-S111-5		17.4	uCi/gm	S	Solids	Braun	Sr89/90	1.03E+09	7.31E+08		
S111	Sr90	8/25/78	1003-C and 1004-	1.86	15.2	uCi/g	S	Acid(KOH Fusion)	RAW	Sr89/90	1.05E+09	7.06E+08		
C112	Sr90	3/1/92	B08DN6	1.3	15.7	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	7.55E+08	7.05E+08		
S111	Sr89/90	8/25/78	1009-C	1.46	19.01	uCi/gm	S	Solids	Braun	Sr89/90	1.03E+09	6.93E+08		
S111	Sr89/90	8/25/78	1009-C	1.44	19.01	uCi/gm	S	Solids	Braun	Sr89/90	1.01E+09	6.84E+08		
BY111	Sr90				0.01836639	Ci/L	S		HTCE Inv.	Sr89/90	6.80E+08	6.80E+08		
BX107	Sr90	10/20/92	J925-AV		11.9	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	7.04E+08	6.68E+08		
BX107	Sr90	6/1/92	B08X70	1.6	12	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	7.10E+08	6.68E+08		
BX107	Sr90	6/1/92	B08X70	1.6	11.8	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	6.99E+08	6.57E+08		
BY102	Sr90				0.01768567	Ci/L	S		HTCE Inv.	Sr89/90	6.54E+08	6.54E+08		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information														Radionuclide Information		
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID			
BX106	Sr90						S		TRAC	Sr89/90		6.50E+08				
U109	Sr90				0.01752634	Ci/L	S		HTCE Inv.	Sr89/90	6.48E+08	6.48E+08				
SX105	Sr90	10/4/74		1.77	28400	uCi/L	G	SLUDGE	RAW	Sr89/90	1.05E+09	6.46E+08				
C112	Sr90	3/11/92	B08DN6	1.3	14.3	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	6.88E+08	6.43E+08				
SX105	Sr89/90	6/11/74	RAT-SX105-1A	1.77	28400	uCi/l	G	Sludge	Braun	Sr89/90	1.05E+09	6.41E+08				
TX108	Sr90						S		TRAC	Sr89/90		6.39E+08				
BX112	Sr89/90	6/11/79	RAT-BX112-1	1.22	20.503	uCi/gm	G	Sludge	Braun	Sr89/90	9.26E+08	6.37E+08				
B203	Sr89/90	1/7/83					G	Sludge	Wastren	Sr89/90	8.48E+08	6.36E+08				
TY101	Sr90	7/8/87		1.64	12.4	uCi/g	S	CREAMY	RAW	Sr89/90	7.52E+08	6.29E+08				
S111	Sr90	8/25/78	1009#C	1.44	17.3	uCi/g	S	Acid(KOH Fusion)	RAW	Sr89/90	9.22E+08	6.22E+08				
B103	Sr90				0.01648665	Ci/L	S		HTCE Inv.	Sr89/90	6.10E+08	6.10E+08				
TY101	Sr90	9/11/85	51XC0000	1.64	12.4	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	7.52E+08	6.02E+08				
TY101	Sr89/90	9/11/85					G	Sludge	Wastren	Sr89/90	7.52E+08	6.01E+08				
BX107	Sr90	9/18/80			14.2	uCi/g	S	solids, Water Insoluble	RAW	Sr89/90	8.41E+08	5.97E+08				
B203	Sr90	1/7/83	RAT-B203-1		13.12	uCi/gm	G	Sludge	Braun	Sr89/90	7.77E+08	5.82E+08				
BX112	Sr90	6/11/75		1.22	20.5	uCi/g	I	core segment	RAW	Sr89/90	9.25E+08	5.79E+08				
S102	Sr89/90	4/29/75	RAT-S102-1	1.3	19.2	uCi/gm	S	Solids	Braun	Sr89/90	9.24E+08	5.76E+08				
S102	Sr90	4/29/75		1.3	19.2	uCi/g	S	Coarse black crystal	RAW	Sr89/90	9.24E+08	5.76E+08				
S102	Sr90	4/17/75		1.3	19.2	uCi/g	S	Top Layer was made up of coarse black crystal	RAW	Sr89/90	9.24E+08	5.75E+08				
BX107	Sr90	6/11/92	B08X97	1.6	10.2	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	6.04E+08	5.68E+08				
BX107	Sr90	10/20/92	J924-AV		9.97	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	5.90E+08	5.60E+08				
SX106	Sr90				0.0150699	Ci/L	S		HTCE Inv.	Sr89/90	5.58E+08	5.58E+08				
TX118	Sr89/90	1/28/80	RAT-TX118-1	1.341	16	uCi/gm	S	Solids	Braun	Sr89/90	7.94E+08	5.55E+08				
BX107	Sr90	6/11/92	B08X71	1.6	9.96	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	5.90E+08	5.54E+08				
TX113	Sr90						S		TRAC	Sr89/90		5.53E+08				
BX107	Sr90	6/11/92	B08X97	1.6	9.76	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	5.78E+08	5.43E+08				
BX107	Sr89/90	9/18/80	RAT-BX107-2	1.422	14.2023	uCi/gm	G	Sludge	Braun	Sr89/90	7.47E+08	5.30E+08				
BX107	Sr90	7/25/79		1.46	14.2	uCi/g	S	Solids, Acid	RAW	Sr89/90	7.67E+08	5.29E+08				
A101	Sr90	11/10/80	RAT-A101-6		20000	uCi/l	R	Slurry	Braun	Sr89/90	7.40E+08	5.27E+08				
BX107	Sr90	10/20/92	J927-AV		9.35	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	5.54E+08	5.25E+08				
A101	Sr90	11/10/80	RAT-A101-4A	1.65	19700	uCi/l	R	Slurry	Braun	Sr89/90	7.29E+08	5.19E+08				
A101	Sr90	11/10/80		1.65	19700	uCi/L	R	Total slurry	RAW	Sr89/90	7.29E+08	5.19E+08				
S102	Sr90	8/5/75	6806	1.32	82700	uCi/gal	O		RAW	Sr89/90	8.08E+08	5.07E+08				
B107	Sr89/90	1/19/76					G	Sludge	Wastren	Sr89/90	7.83E+08	4.97E+08				
B107	Sr89/90	1/19/76	RAT-B107-1	1.64	12.9	uCi/gm	G	Sludge	Braun	Sr89/90	7.83E+08	4.97E+08				
B107	Sr90	1/19/76		1.64	12.9	uCi/g	G	sludge	RAW	Sr89/90	7.83E+08	4.97E+08				
BX107	Sr90	6/11/92	B08X98	1.6	8.79	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	5.20E+08	4.89E+08				
TX118	Sr90	3/31/77		1.26	16	uCi/g	S		RAW	Sr89/90	7.46E+08	4.87E+08				
S111	Sr89/90	8/25/78	1001-C	1.27	15.33	uCi/gm	S	Solids	Braun	Sr89/90	7.20E+08	4.86E+08				
BX107	Sr90	6/11/92	B08X71	1.6	8.74	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	5.17E+08	4.86E+08				
TX118	Sr89/90	2/3/77	RAT-TX118-1	1.26	16	uCi/gm	S	Solids	Braun	Sr89/90	7.46E+08	4.85E+08				
B203	Sr90	1/7/83			0.00000756	wt%	S	solids	RAW	Sr89/90	6.40E+08	4.80E+08				
B203	Sr90	1/7/83			10.74	uCi/g	S	solids	RAW	Sr89/90	6.36E+08	4.77E+08				
BX107	Sr90	10/20/92	J926-AV		8.25	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	4.88E+08	4.63E+08				
S111	Sr90	8/25/78	1001#C	1.27	14.3	uCi/g	A	Salt	RAW	Sr89/90	6.72E+08	4.54E+08				
S109	Sr89/90	12/8/76	RAT-S109-1	1.27	14.6	uCi/gm	A	Salts	Braun	Sr89/90	6.86E+08	4.45E+08				
S109	Sr89/90	12/8/76					K	Saltcake	Wastren	Sr89/90	6.86E+08	4.45E+08				
S109	Sr90	10/19/76		1.27	14.6	uCi/g	S	Coarse crystal	RAW	Sr89/90	6.86E+08	4.43E+08				
S111	Sr89/90	12/27/76	RAT-S111-4	1.41	13	uCi/gm	A	Salts	Braun	Sr89/90	6.78E+08	4.40E+08				
U103	Sr90	12/10/77	3665	1.547	67800	uCi/gal	S	granular crystal	RAW	Sr89/90	6.63E+08	4.40E+08				
BX107	Sr90	6/11/92	B08X98	1.6	7.71	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.56E+08	4.29E+08				
U107	Sr90	12/9/74		1.14	70600	uCi/gal	S	crystal are coarse	RAW	Sr89/90	6.90E+08	4.26E+08				
BY106	Sr90				0.01145209	Ci/L	S		HTCE Inv.	Sr89/90	4.24E+08	4.24E+08				
C102	Sr90				0.01121808	Ci/L	S		HTCE Inv.	Sr89/90	4.15E+08	4.15E+08				
T111	Sr90	11/1/91	B08WR2	1.6	7.55	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.47E+08	4.14E+08				
C105	Sr90				0.01115736	Ci/L	S		HTCE Inv.	Sr89/90	4.13E+08	4.13E+08				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
T111	Sr90	11/1/91	B08WR1	1.6	7.34	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.35E+08	4.03E+08		
T111	Sr90	11/1/91	B08WR2	1.6	7.31	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.33E+08	4.01E+08		
B202	Sr90	6/7/91	B08C04	1.6	7.37	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.36E+08	4.00E+08		
C110	Sr90	4/23/92			7.21	uCi/g	S		RAW	Sr89/90	4.27E+08	4.00E+08		
C110	Sr90	4/23/92	B08VN6	1.6	7.21	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.27E+08	4.00E+08		
C110	Sr90	4/23/92			7.15	uCi/g	S		RAW	Sr89/90	4.23E+08	3.97E+08		
C110	Sr90	4/23/92	B08VP1	1.6	7.15	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.23E+08	3.97E+08		
SX103	Sr89/90	3/18/76	RAT-SX103-2	1.601	10.5	uCi/gm	A	Salts	Braun	Sr89/90	6.22E+08	3.96E+08		
C110	Sr90	4/23/92			7.13	uCi/g	S		RAW	Sr89/90	4.22E+08	3.96E+08		
C110	Sr90	4/23/92	B08VN6	1.6	7.13	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	4.22E+08	3.96E+08		
TY102	Sr89/90	2/1/80	RAT-TY102-1	1.51	9.93	uCi/gm	A	Salts	Braun	Sr89/90	5.55E+08	3.88E+08		
TY102	Sr90	2/1/80		1.51	9.87	uCi/g	K	SALT CAKE	RAW	Sr89/90	5.51E+08	3.85E+08		
A102	Sr90	12/18/72			0.0176	Ci/L	G	flocculant	RAW	Sr89/90	6.51E+08	3.84E+08		
S102	Sr89/90	7/7/75	T-5859	1.37	62600	uCi/gal	G	Sludge	Braun	Sr89/90	6.12E+08	3.83E+08		
S102	Sr90	7/7/75	5859	1.37	62600	uCi/gal	O		RAW	Sr89/90	6.12E+08	3.83E+08		
T111	Sr90	11/1/91	B08WR1	1.6	6.97	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	4.13E+08	3.82E+08		
BY112	Sr90				0.01027369	Ci/L	S		HTCE Inv.	Sr89/90	3.80E+08	3.80E+08		
T105	Sr90						S		TRAC	Sr89/90		3.80E+08		
TY101	Sr90	9/18/80			8.74	uCi/g	G	SLUDGE	RAW	Sr89/90	5.17E+08	3.67E+08		
C110	Sr90	4/23/92			6.5	uCi/g	S		RAW	Sr89/90	3.85E+08	3.61E+08		
C110	Sr90	4/23/92	B08VP1	1.6	6.5	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	3.85E+08	3.61E+08		
A102	Sr90	12/18/72		1.175	0.0164	Ci/L	G	Hard sludge	RAW	Sr89/90	6.07E+08	3.57E+08		
B102	Sr90						S		TRAC	Sr89/90		3.51E+08		
B107	Sr90				0.00939553	Ci/L	S		HTCE Inv.	Sr89/90	3.48E+08	3.48E+08		
BX107	Sr90				0.00939553	Ci/L	S		HTCE Inv.	Sr89/90	3.48E+08	3.48E+08		
BX108	Sr90				0.00939553	Ci/L	S		HTCE Inv.	Sr89/90	3.48E+08	3.48E+08		
C110	Sr90				0.00939553	Ci/L	S		HTCE Inv.	Sr89/90	3.48E+08	3.48E+08		
S102	Sr90	4/29/75		1.3	15000	uCi/L	S	Coarse black crystal	RAW	Sr89/90	5.55E+08	3.46E+08		
S102	Sr90	4/17/75		1.3	15000	uCi/L	S	Top Layer was made up of coarse black crystal	RAW	Sr89/90	5.55E+08	3.46E+08		
S102	Sr90	10/21/75	9049	1.487	55600	uCi/gal	O		RAW	Sr89/90	5.43E+08	3.43E+08		
SX105	Sr89/90	12/12/75	T-377	1.5	54100	uCi/gal	S	Solids	Braun	Sr89/90	5.29E+08	3.35E+08		
B202	Sr90	6/7/91	B08C04	1.6	6.05	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	3.58E+08	3.29E+08		
A101	Sr90	11/10/80	RAT-A101-9A	1.58	12300	uCi/L	R	Slurry	Braun	Sr89/90	4.55E+08	3.24E+08		
A101	Sr90	11/10/80		1.58	12300	uCi/L	R	Total slurry	RAW	Sr89/90	4.55E+08	3.24E+08		
B110	Sr90	4/1/90		1.37	7.11711712	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	3.61E+08	3.22E+08		
SX104	Sr89/90	12/5/75	T-375	1.49	51800	uCi/gal	S	Solids	Braun	Sr89/90	5.06E+08	3.20E+08		
B202	Sr90	6/7/91	B08C05	1.6	5.85	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	3.46E+08	3.18E+08		
BX110	Sr90	2/14/79	1010-C		7.8	uCi/g	S	sludge	RAW	Sr89/90	4.62E+08	3.15E+08		
BX104	Sr90						S		TRAC	Sr89/90		3.01E+08		
BX110	Sr89/90	9/18/80	RAT-BX110-1	1.45	7.79	uCi/gm	G	Sludge	Braun	Sr89/90	4.18E+08	2.97E+08		
SX108	Sr90	4/1/61		1.712	68000	uCi/gal	S		RAW	Sr89/90	6.65E+08	2.96E+08		
S111	Sr90	8/21/74		1.704	7.54	uCi/g	A	Salt	RAW	Sr89/90	4.75E+08	2.92E+08		
B110	Sr90	4/1/90		1.37	6.44144144	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	3.27E+08	2.91E+08		
BX110	Sr89/90	2/14/79	1010-C	1.44	7.8	uCi/gm	G	Sludge	Braun	Sr89/90	4.16E+08	2.84E+08		
S102	Sr90	4/2/75	3259	1.24	46300	uCi/gal	S	Suspended Solids	RAW	Sr89/90	4.53E+08	2.82E+08		
BX112	Sr90				0.00756225	Ci/L	S		HTCE Inv.	Sr89/90	2.80E+08	2.80E+08		
BX110	Sr90				0.00740254	Ci/L	S		HTCE Inv.	Sr89/90	2.74E+08	2.74E+08		
TY102	Sr90	6/19/87		1.88	4.57	uCi/g	S	SOLID	RAW	Sr89/90	3.18E+08	2.65E+08		
C110	Sr90	10/19/77	9501		10800	uCi/L	S	sludge	RAW	Sr89/90	4.00E+08	2.64E+08		
TX111	Sr90						S		TRAC	Sr89/90		2.63E+08		
TX118	Sr90	1/26/77	T-1205		40900	uCi/gal	D	Suspended Solids	RAW	Sr89/90	4.00E+08	2.60E+08		
TY102	Sr89/90	9/9/85					K	Saltcake	Wastren	Sr89/90	3.18E+08	2.54E+08		
TY102	Sr90	9/9/85	41XC0000	1.88	4.57	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	3.18E+08	2.54E+08		
TX101	Sr90						S		TRAC	Sr89/90		2.49E+08		
C110	Sr90	4/23/92			4.38	uCi/g	S		RAW	Sr89/90	2.59E+08	2.43E+08		
C110	Sr90	4/23/92	B08W47	1.6	4.38	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.59E+08	2.43E+08		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information		ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed			
S102	Sr90	6/13/75			39100	uCi/gal	S	Solid unknow	RAW	Sr89/90	3.82E+08	2.39E+08			
C110	Sr90	4/23/92			4.26	uCi/g	S		RAW	Sr89/90	2.52E+08	2.36E+08			
C110	Sr90	4/23/92	B08W47	1.6	4.26	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.52E+08	2.36E+08			
B202	Sr89/90	12/31/91					G	Sludge	Wastren	Sr89/90	2.53E+08	2.35E+08			
BY109	Sr90						S		TRAC	Sr89/90		2.26E+08			
C111	Sr90				0.00593402	Ci/L	S		HTCE Inv.	Sr89/90	2.20E+08	2.20E+08			
S102	Sr90	7/9/75	5964	1.35	35800	uCi/gal	S	Suspended Solids	RAW	Sr89/90	3.50E+08	2.19E+08			
C110	Sr90	4/23/92			3.94	uCi/g	S		RAW	Sr89/90	2.33E+08	2.19E+08			
C110	Sr90	4/23/92	B08VK1	1.6	3.94	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.33E+08	2.19E+08			
B202	Sr90	6/7/91	B08C04	1.6	3.9	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.31E+08	2.12E+08			
T104	Sr90	9/18/80			5	uCi/g	S	H2O Insoluble	RAW	Sr89/90	2.96E+08	2.10E+08			
C110	Sr90	4/23/92			3.72	uCi/g	S		RAW	Sr89/90	2.20E+08	2.06E+08			
C110	Sr90	4/23/92	B08VJ5	1.6	3.72	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.20E+08	2.06E+08			
C106	Sr90	8/1/88	2		4030	uCi/kg	O		RAW	Sr89/90	2.39E+08	2.05E+08			
C106	Sr90	7/22/88			4030	uCi/kg	O		RAW	Sr89/90	2.39E+08	2.04E+08			
T111	Sr90	8/7/92	J-470		3.65	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	2.16E+08	2.04E+08			
A102	Sr90	7/17/80	T-1245	1.1554	7740	uCi/L	I	7 ft. sample	RAW	Sr89/90	2.86E+08	2.02E+08			
T111	Sr90	11/1/91	B08WZ0	1.6	3.67	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.17E+08	2.01E+08			
T111	Sr90	11/1/91	B08WZ0	1.6	3.62	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.14E+08	1.99E+08			
C110	Sr90	4/23/92			3.55	uCi/g	S		RAW	Sr89/90	2.10E+08	1.97E+08			
C110	Sr90	4/23/92	B08VK1	1.6	3.55	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.10E+08	1.97E+08			
B104	Sr90				0.00518987	Ci/L	S		HTCE Inv.	Sr89/90	1.92E+08	1.92E+08			
T111	Sr90	11/1/91	B08WZ1	1.6	3.48	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	2.06E+08	1.91E+08			
T111	Sr90	11/1/91	B08WZ1	1.6	3.37	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	2.00E+08	1.85E+08			
BX111	Sr90						S		TRAC	Sr89/90		1.83E+08			
B202	Sr90	6/7/91	B08C11	1.6	3.36	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.99E+08	1.83E+08			
B104	Sr90						S		TRAC	Sr89/90		1.80E+08			
B203	Sr89/90	12/4/78	2782	1.09	6.541	uCi/gm	G	Sludge	Braun	Sr89/90	2.64E+08	1.79E+08			
B203	Sr90	12/4/78	2782	1.09	6.54	uCi/g	S	acid fusion	RAW	Sr89/90	2.64E+08	1.79E+08			
U108	Sr89/90	8/14/75					K	Saltcake	Wastren	Sr89/90	2.80E+08	1.76E+08			
U108	Sr89/90	8/14/75	RAT-U108-1	0.898	8.4	uCi/gm	G	Sludge	Braun	Sr89/90	2.79E+08	1.75E+08			
U108	Sr90	8/14/75		0.898	8.4	uCi/g	S	Solids were crystalline	RAW	Sr89/90	2.79E+08	1.75E+08			
T104	Sr89/90	9/18/80					G	Sludge	Wastren	Sr89/90	2.42E+08	1.72E+08			
T104	Sr89/90	9/18/80	RAT-T104-2	1.307	5	uCi/gm	G	Sludge	Braun	Sr89/90	2.42E+08	1.72E+08			
U103	Sr89/90	12/4/78					G	Sludge	Wastren	Sr89/90	2.50E+08	1.70E+08			
U103	Sr89/90	12/4/78	3064	1.4	4.816	uCi/gm	S	Solids	Braun	Sr89/90	2.49E+08	1.70E+08			
T104	Sr90	8/26/92	B08TT8	1.6	3.02	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.79E+08	1.69E+08			
T104	Sr89/90	11/13/79	RAT-T104-1	1.31	5.000747	uCi/gm	G	Sludge	Braun	Sr89/90	2.42E+08	1.69E+08			
T104	Sr90	11/13/79		1.31	5	uCi/g	I	Composite	RAW	Sr89/90	2.42E+08	1.69E+08			
T104	Sr90	8/26/92	B08TT8	1.6	2.98	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.76E+08	1.67E+08			
B202	Sr90	6/7/91	B08C10	1.6	3.04	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.80E+08	1.65E+08			
B202	Sr90	6/7/91	B08C10	1.6	3.03	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.79E+08	1.65E+08			
S102	Sr90	4/4/75	3328	1.34	27000	uCi/gal	S	Suspended Solids	RAW	Sr89/90	2.64E+08	1.64E+08			
T104	Sr90	8/26/92	B08TT7	1.6	2.76	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.63E+08	1.54E+08			
B105	Sr89/90	1/16/76	RAT-B105-1	1.1	5.9	uCi/gm	G	Sludge	Braun	Sr89/90	2.40E+08	1.52E+08			
B105	Sr90	1/16/76		1.1	5.9	uCi/g	S	solid	RAW	Sr89/90	2.40E+08	1.52E+08			
B105	Sr89/90	1/16/76					K	Saltcake	Wastren	Sr89/90	2.40E+08	1.52E+08			
T104	Sr90	8/26/92	B08TT7	1.6	2.72	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.61E+08	1.52E+08			
TY103	Sr89/90	9/18/80	RAT-TY103-1	1.5	3.8332	uCi/gm	G	Sludge	Braun	Sr89/90	2.13E+08	1.51E+08			
TY103	Sr90	9/18/80		1.5	3.78	uCi/g	S	SOLID	RAW	Sr89/90	2.10E+08	1.49E+08			
BY104	Sr90						S		TRAC	Sr89/90		1.49E+08			
B202	Sr90	6/7/91	B08C11	1.6	2.72	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.61E+08	1.48E+08			
B202	Sr90	6/7/91	B08C11	1.6	2.66	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.57E+08	1.45E+08			
C110	Sr90	4/23/92			2.59	uCi/g	S		RAW	Sr89/90	1.53E+08	1.44E+08			
C110	Sr90	4/23/92	B08VJ5	1.6	2.59	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.53E+08	1.44E+08			
T104	Sr90	8/26/92	B08TC0	1.6	2.49	uCi/g	S	DUPLICATE RESULT	TCD	Sr89/90	1.47E+08	1.39E+08			

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Single-Shell Tank Solids (Seitch ES-VAL-CR20)
ASA Value: 1.70E+12 Bq/L

Tank	Reported Radionuclide	Date	Sample #	Density	Value Reported	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Decayed ID
T104	Sr90	1/26/93	T104-C45-C2		2.44	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.44E+08	1.38E+08
U103	Sr90	1/24/78	3064	1.4	3.86	uCi/g	S	granular crystal	RAW	Sr89/90	2.00E+08	1.36E+08
T104	Sr90	8/26/92	B08TC0	1.6	2.4	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.42E+08	1.34E+08
T104	Sr90	1/26/93	T104-C45-C1		2.34	uCi/gm	G	Sludge/Composite	Braun	Sr89/90	1.39E+08	1.32E+08
T104	Sr90	8/26/92	B08TB9	1.6	2.35	uCi/g	S	DUPPLICATE RESULT	TCD	Sr89/90	1.39E+08	1.31E+08
T104	Sr90	8/26/92	B08TB9	1.6	2.33	uCi/g	S	PRIMARY RESULT	TCD	Sr89/90	1.38E+08	1.30E+08
B108	Sr90				0.00339838	C/L	S		HTCE Inv.	Sr89/90	1.26E+08	1.26E+08
AX101	Sr90	11/11/80		1.391	4450	C/L	O	Other	RAW	Sr89/90	1.65E+08	1.17E+08
B204	Sr89/90	1/24/78	1974	1.14	4.004	uCi/gm	G	Sludge	Wastren	Sr89/90	1.69E+08	1.15E+08
B204	Sr89/90	1/24/78	1974	1.14		uCi/gm	G	Sludge	Braun	Sr89/90	1.69E+08	1.15E+08
T104	Sr89/90	4/23/80	RAT-T104-3		0.00437	C/L	G	Sludge	Braun	Sr89/90	1.69E+08	1.15E+08
AX101	Sr90	11/11/80		1.36	4310	uCi/L	O	Other	RAW	Sr89/90	1.59E+08	1.14E+08
T104	Sr90	1/20/79	RAT-TY104-1	1.41	3.1	uCi/gm	G	Sludge	Braun	Sr89/90	1.62E+08	1.13E+08
B112	Sr90	9/18/80		1.51	2.58	uCi/g	S	SOLID	RAW	Sr89/90	1.44E+08	1.07E+08
B202	Sr90	6/7/91	B08C05	1.6	1.88	uCi/g	S	DUPPLICATE RESULT	TCD	Sr89/90	1.02E+08	1.02E+08
B105	Sr90						S		TRAC	Sr89/90	9.41E+07	
B201	Sr89/90	1/24/78	1898	1.37	2.7	uCi/gm	G	Sludge	Wastren	Sr89/90	1.37E+08	9.31E+07
B201	Sr89/90	1/24/78				uCi/gm	G	Sludge	Braun	Sr89/90	1.37E+08	9.30E+07
S111	Sr89/90	5/29/74	RAT-S111-2	1.348	2.87	uCi/gm	G	Sludge	Braun	Sr89/90	1.43E+08	8.73E+07
S111	Sr90	5/29/74		1.348	2.87	uCi/g	G	Sludge	RAW	Sr89/90	1.43E+08	8.73E+07
U203	Sr90	1/24/78	1766	1.6	2.15	uCi/g	S	granular crystal (Acid Fusion)	RAW	Sr89/90	1.27E+08	8.65E+07
U203	Sr89/90	1/24/78				uCi/g	G	Sludge	Wastren	Sr89/90	1.27E+08	8.63E+07
U108	Sr90				0.00219079	C/L	S	Sludge	HTCE Inv.	Sr89/90	8.11E+07	
TX118	Sr90	2/1/80		2.17	1.18	uCi/g	G	SLUDGE	TRAC	Sr89/90	7.61E+07	
TX105	Sr90	2/1/80				uCi/g	G		RAW	Sr89/90	9.47E+07	6.62E+07
T112	Sr90						S		TRAC	Sr89/90	6.30E+07	
S111	Sr90	8/25/78	1009#C	1.44	1.71	uCi/g	S	Water soluble	RAW	Sr89/90	9.11E+07	6.15E+07
U111	Sr89/90	8/14/75	RAT-U111-1	0.908	2.9	uCi/gm	G	Sludge	Braun	Sr89/90	9.74E+07	6.12E+07
U111	Sr90	8/14/75		0.908	2.9	uCi/g	S	Solid ore crystalline	RAW	Sr89/90	9.74E+07	6.12E+07
U111	Sr89/90	8/14/75				uCi/g	G	Sludge	Wastren	Sr89/90	9.74E+07	6.12E+07
U110	Sr90	12/1/89		1.14		uCi/g	I	DUPPLICATE	U110 - Core Data	Sr89/90	6.75E+07	5.97E+07
T110	Sr90						S		TRAC	Sr89/90	5.97E+07	
B110	Sr90						S		TRAC	Sr89/90	5.97E+07	
S111	Sr90	4/1/90		1.31	1.3585586	uCi/g	I		RAW	Sr89/90	6.57E+07	5.86E+07
Sr90		8/25/78	1003-C and 1004-	1.86	1.2	uCi/g	S	Water soluble	RAW	Sr89/90	8.26E+07	5.58E+07
TX103	Sr90	12/31/79		1.241	2120	uCi/L	S	SOLIDS	HTCE Inv.	Sr89/90	5.57E+07	5.57E+07
TX103	Sr90	12/31/79	1468			uCi/L	S		RAW	Sr89/90	7.84E+07	5.46E+07
BX111	Sr90	8/19/74	RAT-S109-3	1.1	2.08	uCi/gm	A	Salts	HTCE Inv.	Sr89/90	5.27E+07	5.27E+07
S109	Sr89/90						A		Braun	Sr89/90	8.47E+07	5.19E+07
T111	Sr90	12/31/79		1.251	1800	uCi/L	S	SOLIDS	TRAC	Sr89/90	6.66E+07	5.07E+07
TX102	Sr90	12/20/55	1470	3.12	uCi/mL	S	S	solid	RAW	Sr89/90	1.15E+08	4.52E+07
TX103	Sr90	12/31/79	1467	1.261	1740	uCi/L	S	SOLIDS	RAW	Sr89/90	6.44E+07	4.48E+07
TX103	Sr90	12/31/79	1469	1.243	1710	uCi/L	S	SOLIDS	RAW	Sr89/90	6.33E+07	4.40E+07
B110	Sr90	4/1/90		1.31	1.00900901	uCi/g	I		RAW	Sr89/90	4.89E+07	4.36E+07
B109	Sr90						S		TRAC	Sr89/90	5.19E+07	4.09E+07
TY105	Sr90	9/18/80		0.877		uCi/g	G	SLUDGE	RAW	Sr89/90	5.19E+07	3.68E+07
U103	Sr90	12/14/78	3084	1.4	0.956	uCi/g	S	granular crystal	RAW	Sr89/90	4.96E+07	3.37E+07
S111	Sr90	8/25/78	1001#C	1.27	1.03	uCi/g	S	Salt	RAW	Sr89/90	4.84E+07	3.27E+07
U110	Sr90	12/1/89		0.561		uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	3.32E+07	2.94E+07
U110	Sr90	11/17/89	89-050	0.561		uCi/gm	G	Sludge/Composite	Braun	Sr89/90	3.32E+07	2.94E+07
B110	Sr90	4/1/90		1.17	0.66666667	uCi/g	I		RAW	Sr89/90	2.89E+07	2.57E+07

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids (Sketch ES-VAL-CR20)
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information											Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
S106	Sr89/90	6/4/75	RAT-S106-2	1.59	0.69	uCi/gm	G	Sludge	Wastren	Sr89/90	4.06E+07	2.54E+07		
S106	Sr89/90	6/4/75					S	Solids	Braun	Sr89/90	4.06E+07	2.54E+07		
S106	Sr90	6/4/75					S	Salt solids	RAW	Sr89/90	4.06E+07	2.54E+07		
B110	Sr90	4/1/90					I		RAW	Sr89/90	2.69E+07	2.40E+07		
BY103	Sr90	12/20/55			1.6	uCi/mL	S	Scavenging Initial	RAW	Sr89/90	5.92E+07	2.32E+07		
S108	Sr90	6/25/74		1.495	0.684	uCi/g	S	Solids (Bottom)	RAW	Sr89/90	3.78E+07	2.31E+07		
U110	Sr90	12/1/89		1.675	0.419	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	2.60E+07	2.30E+07		
B105	Sr90				0.00061784	Ci/L	S		HTCE Inv.	Sr89/90	2.29E+07	2.29E+07		
TX118	Sr90	1/28/80		1.333	816	uCi/L	S	SOLIDS	RAW	Sr89/90	3.02E+07	2.11E+07		
TX118	Sr90	1/28/80		1.341	798	uCi/L	S	SOLIDS	RAW	Sr89/90	2.95E+07	2.06E+07		
B110	Sr90	4/1/90		1.21	0.50900901	uCi/g	I		RAW	Sr89/90	2.28E+07	2.03E+07		
S112	Sr90	12/10/74		1.304	0.67	uCi/g	A	Salt	RAW	Sr89/90	3.23E+07	2.00E+07		
S112	Sr89/90	11/15/74	RAT-S112-1	1.304	0.67	uCi/gm	A	Salts	Braun	Sr89/90	3.23E+07	1.99E+07		
S112	Sr89/90	11/15/74					K	Saltcake	Wastren	Sr89/90	3.22E+07	1.99E+07		
B110	Sr90	4/1/90		1.21	0.46396396	uCi/g	I		RAW	Sr89/90	2.08E+07	1.85E+07		
B110	Sr90	4/1/90		1.36	0.41216216	uCi/g	I		RAW	Sr89/90	2.07E+07	1.85E+07		
TY104	Sr90	9/18/80		1.41	0.49	uCi/g	G	SLUDGE	RAW	Sr89/90	2.56E+07	1.81E+07		
S102	Sr89/90	4/29/75	RAT-S102-2	1.52	0.5	uCi/gm	G	Sludge	Braun	Sr89/90	2.81E+07	1.75E+07		
S102	Sr90	4/29/75		1.52	0.5	uCi/g	S	Fine yellow crystal	RAW	Sr89/90	2.81E+07	1.75E+07		
S110	Sr90	12/17/74	T-8044	1.536	2570	uCi/gal	O		RAW	Sr89/90	2.51E+07	1.55E+07		
TY106	Sr89/90	9/18/80	RAT-TY106-2	1.86	0.3124	uCi/gm	G	Sludge	Braun	Sr89/90	2.15E+07	1.53E+07		
B110	Sr90	8/9/89	90-0640-C-1	1.355	762000	dpm/g	I	core 2	RAW	Sr89/90	1.72E+07	1.51E+07		
B110	Sr90	4/1/90		1.33	0.34324324	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	1.69E+07	1.51E+07		
U110	Sr90	12/1/89		1.675	0.272	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	1.69E+07	1.49E+07		
S111	Sr90	8/21/74		1.704	622	uCi/L	A	Salt	RAW	Sr89/90	2.30E+07	1.41E+07		
TX103	Sr90	4/9/76	T-4138	1.43	2230	uCi/gal	D	Suspended Solids	RAW	Sr89/90	2.18E+07	1.39E+07		
B110	Sr90	4/1/90		1.36	0.27837838	uCi/g	I		RAW	Sr89/90	1.40E+07	1.25E+07		
B110	Sr90	8/9/89	90-0640-C-2	1.355	577000	dpm/g	I	core 2	RAW	Sr89/90	1.31E+07	1.15E+07		
B110	Sr90	4/1/90		1.33	0.25990991	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	1.28E+07	1.14E+07		
B110	Sr90	4/1/90		1.36	0.24324324	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	1.22E+07	1.09E+07		
B110	Sr90	4/1/90		1.36	0.1963964	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	9.88E+06	8.82E+06		
SX103	Sr90						S		TRAC	Sr89/90		8.60E+06		
SX101	Sr89/90	11/13/74	RAT-SX101-3	1.65	0.226	uCi/gm	A	Salts	Braun	Sr89/90	1.38E+07	8.51E+06		
U104	Sr89/90	3/14/61					G	Sludge	Wastren	Sr89/90	1.80E+07	7.99E+06		
U104	Sr89/90	3/14/61	M-179	1.048	1840	uCi/gal	G	Sludge	Braun	Sr89/90	1.80E+07	7.99E+06		
TY101	Sr90	9/18/80			0.182	uCi/g	G	SLUDGE	RAW	Sr89/90	1.08E+07	7.65E+06		
S102	Sr90	4/29/75		1.52	330	uCi/L	S	Fine yellow crystal	RAW	Sr89/90	1.22E+07	7.61E+06		
SX101	Sr90	12/4/78	4523	1.52	0.18	uCi/g	S	Solids	RAW	Sr89/90	1.01E+07	6.88E+06		
TY101	Sr90	9/18/80			0.158	uCi/g	G	SLUDGE	RAW	Sr89/90	9.35E+06	6.64E+06		
U110	Sr90	12/1/89		1.42	0.139	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	7.30E+06	6.46E+06		
U110	Sr90	12/1/89		1.48	0.125	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	6.85E+06	6.06E+06		
C204	Sr89/90	12/4/78	T-1914	1.07	0.223	uCi/gm	G	Sludge	Braun	Sr89/90	8.83E+06	6.00E+06		
T204	Sr89/90	12/4/78	1914	1.07	0.223	uCi/gm	G	Sludge	Braun	Sr89/90	8.83E+06	6.00E+06		
U110	Sr90	12/1/89		1.42	0.116	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	6.09E+06	5.39E+06		
U110	Sr90	12/1/89		1.48	0.108	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	5.91E+06	5.23E+06		
B110	Sr90	4/1/90		1.36	0.08693694	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	4.37E+06	3.90E+06		
B110	Sr90	4/1/90		1.36	0.08558559	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	4.31E+06	3.84E+06		
T204	Sr90	12/4/78		1.07	0.137	uCi/g	S	SOLID	RAW	Sr89/90	5.42E+06	3.69E+06		
U110	Sr90	12/1/89		1.54	0.0677	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	3.86E+06	3.41E+06		
U110	Sr90	12/1/89			0.065	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	3.85E+06	3.41E+06		
B110	Sr90	4/1/90		1.36	0.07567568	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	3.81E+06	3.40E+06		
U110	Sr90	12/1/89			0.064	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	3.79E+06	3.35E+06		
U104	Sr89/90	3/14/61	M-130	1.019	720	uCi/gal	S	Solids	Braun	Sr89/90	7.04E+06	3.13E+06		
U110	Sr90	12/1/89		1.54	0.0594	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	3.38E+06	3.00E+06		
U110	Sr90	12/1/89		1.29	0.0676	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	3.23E+06	2.86E+06		
B110	Sr90	4/1/90		1.36	0.06351351	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	3.20E+06	2.85E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
U110	Sr90	12/1/89		1.29	0.0657	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	3.14E+06	2.78E+06		
U110	Sr90	12/1/89		1.04	0.076	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	2.92E+06	2.59E+06		
U110	Sr90	12/1/89		1.3	0.0594	uCi/g	I	PRIMARY	U110 - Core Data	Sr89/90	2.86E+06	2.53E+06		
TX108	Sr90	1/21/74		1.403	425	uCi/gal	A	CRYSTALS	RAW	Sr89/90	4.15E+06	2.51E+06		
TY102	Sr90	2/1/80		1.51	0.06	uCi/g	K	SALT CAKE	RAW	Sr89/90	3.35E+06	2.34E+06		
B110	Sr90	4/1/90		1.34	0.0527027	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	2.61E+06	2.33E+06		
T204	Sr90	12/4/78		1.07	0.086	uCi/g	S	H2O Soluble	RAW	Sr89/90	3.40E+06	2.31E+06		
BX105	Sr89/90	2/11/76	T-2325	1.369	344	uCi/gal	G	Sludge	Braun	Sr89/90	3.36E+06	2.14E+06		
TY103	Sr90	9/18/80		1.5	0.0532	uCi/g	S	SOLID	RAW	Sr89/90	2.95E+06	2.10E+06		
SX104	Sr89/90	6/19/74	RAT-SX104-1A		0.055	uCi/gm	G	Sludge	Braun	Sr89/90	3.26E+06	1.99E+06		
SX104	Sr90	6/19/74			0.055	uCi/g	G	SLUDGE	RAW	Sr89/90	3.26E+06	1.99E+06		
B110	Sr90	4/1/90		1.34	0.04454955	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	2.21E+06	1.97E+06		
U110	Sr90	12/1/89		1.04	0.057	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	2.19E+06	1.94E+06		
TY102	Sr90	9/18/80		1.51	0.0412	uCi/g	S	SOLID	RAW	Sr89/90	2.30E+06	1.63E+06		
B106	Sr90						S		TRAC	Sr89/90		1.52E+06		
U110	Sr90	12/1/89		1.3	0.0332	uCi/g	I	DUPLICATE	U110 - Core Data	Sr89/90	1.60E+06	1.41E+06		
BX110	Sr90	11/9/78		1.71	0.028	uCi/g	s	red crystals	RAW	Sr89/90	1.77E+06	1.20E+06		
BY101	Sr90	12/20/55			0.079	uCi/mL	S	Scavenging Final	RAW	Sr89/90	2.92E+06	1.14E+06		
U203	Sr90	12/4/78	1766	1.6	0.021	uCi/g	S	granular crystal (Water Soluble)	RAW	Sr89/90	1.24E+06	8.45E+05		
C106	Sr90	4/23/80			28.9	Ci/L	G	sludge	RAW	Sr89/90	1.07E+06	7.51E+05		
A101	Sr90	4/30/76	4355		26	Ci/L	G	sludge	RAW	Sr89/90	9.62E+05	6.14E+05		
B110	Sr90	4/1/90		1.32	0.01396396	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	6.82E+05	6.08E+05		
C201	Sr90	12/4/78	3421	1.16	0.02	uCi/g	S	H2O soluble	RAW	Sr89/90	8.58E+05	5.83E+05		
A101	Sr90	4/30/76	4365		23	Ci/L	G	sludge	RAW	Sr89/90	8.51E+05	5.44E+05		
S106	Sr90	12/16/74	T-8035	1.5414	78.8	uCi/gal	O		RAW	Sr89/90	7.70E+05	4.76E+05		
A101	Sr90	4/30/76	45555		15.6	Ci/L	G	sludge	RAW	Sr89/90	5.77E+05	3.69E+05		
U204	Sr89/90	12/4/78					G	Sludge	Wastran	Sr89/90	4.45E+05	3.02E+05		
U204	Sr89/90	12/4/78	RAT-U204-1	1.31	0.00918	uCi/gm	S	Solids	Braun	Sr89/90	4.45E+05	3.02E+05		
B110	Sr90	4/1/90		1.37	0.00648649	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	3.29E+05	2.93E+05		
B110	Sr90	4/1/90		1.32	0.00666667	uCi/g	I	PRIMARY	B110 - Core Data	Sr89/90	3.26E+05	2.90E+05		
U204	Sr90	12/4/78	641	1.31	0.0086	uCi/g	S	acid fusion	RAW	Sr89/90	4.17E+05	2.83E+05		
C106	Sr90	9/1/80	4		6.47	uCi/kg	O		RAW	Sr89/90	3.83E+05	2.71E+05		
S102	Sr90	11/16/73	459	1.29	43	uCi/gal	S	Solid	RAW	Sr89/90	4.20E+05	2.53E+05		
A101	Sr90	4/30/76	4554		5.9	Ci/L	G	sludge	RAW	Sr89/90	2.18E+05	1.39E+05		
S107	Sr90	11/6/73		1.1071	6.156	uCi/L	O		RAW	Sr89/90	2.28E+05	1.37E+05		
B201	Sr90	12/4/78	1898	1.37	0.0021	uCi/g	S	Water Soluble	RAW	Sr89/90	1.06E+05	7.24E+04		
B110	Sr90	4/1/90		1.37	0.0009955	uCi/g	I	DUPLICATE	B110 - Core Data	Sr89/90	6.05E+04	4.50E+04		
S107	Sr89/90	11/6/73	T-178	1.14	1.98	uCi/l	I	Composite	Braun	Sr89/90	7.33E+04	4.41E+04		
T104	Sr90	11/13/79		1.31	0.000747	uCi/g	I	Composite	RAW	Sr89/90	3.62E+04	2.52E+04		
BX110	Sr90	9/18/80		1.45	0.000559	uCi/g	S	sludge	RAW	Sr89/90	3.00E+04	2.13E+04		
U110	Sr90	7/3/74		1.5	0.93	uCi/L	S	Chunk, mud like	RAW	Sr89/90	3.44E+04	2.10E+04		
BX110	Sr90	2/14/79	1010-C	1.44	0.000573	uCi/g	s	solid	RAW	Sr89/90	3.05E+04	2.09E+04		
U204	Sr90	12/4/78	641	1.31	0.00058	uCi/g	S	granular crystals	RAW	Sr89/90	2.81E+04	1.91E+04		
S108	Sr89/90	6/25/74					G	Sludge	Wastran	Sr89/90	1.75E+04	1.07E+04		
S108	Sr89/90	7/8/74	RAT-S108-5	1.495	0.000315	uCi/gm	S	Solids	Braun	Sr89/90	1.74E+04	1.07E+04		
S108	Sr90	6/25/74		1.393	0.000315	uCi/g	S	Solids(Top)	RAW	Sr89/90	1.82E+04	9.92E+03		
B203	Sr90	12/30/82			0.00000756	uCi/g	S	Solids	RAW	Sr89/90	4.48E+02	3.35E+02		
BX107	Sr90	5/2/79			0.003	uCi/kg	I	core segments	RAW	Sr89/90	1.78E+02	1.22E+02		
SX102	Sr90	11/28/74		1.74	0.00195	uCi/L	G	Sludge(Top Layer)	RAW	Sr89/90	7.22E+01	4.45E+01		
B106	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
B109	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
B201	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
B202	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
B203	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
B204	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
BY103	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Single-Shell Tank Solids [Sketch ES-VAL-CR20]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed		
S103	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
S106	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
S109	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
U201	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
U202	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
U203	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		
U204	Sr90				0	Ci/L	S		HTCE Inv.	Sr89/90	0.00E+00	0.00E+00		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Liquids [Sketch ES-VAL-CR21]
 ASA Value: 1.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
S110	Y90						L		TRAC	Y90	1.14E+10		4
S111	Y90						L		TRAC	Y90	1.12E+10		4
ASA Value: 1.1E+10 Bq/L													22
SX106	Y90						L		TRAC	Y90	4.21E+09		
S101	Y90						L		TRAC	Y90	2.74E+09		
SX104	Y90						L		TRAC	Y90	2.62E+09		
SX105	Y90						L		TRAC	Y90	2.54E+09		
AX103	Y90						L		TRAC	Y90	2.00E+09		
U107	Y90						L		TRAC	Y90	1.85E+09		
U102	Y90						L		TRAC	Y90	1.68E+09		
U111	Y90						L		TRAC	Y90	1.46E+09		
B109	Y90						L		TRAC	Y90	9.69E+08		
S108	Y90						L		TRAC	Y90	8.27E+08		
B103	Y90						L		TRAC	Y90	4.79E+08		
A103	Y90						L		TRAC	Y90	4.62E+08		
C107	Y90						L		TRAC	Y90	2.19E+08		
B108	Y90						L		TRAC	Y90	8.52E+07		
TX108	Y90						L		TRAC	Y90	4.74E+07		
C101	Y90						L		TRAC	Y90	3.93E+07		
BX110	Y90						L		TRAC	Y90	3.88E+07		
BX111	Y90						L		TRAC	Y90	3.54E+07		
BY109	Y90						L		TRAC	Y90	3.46E+07		
TY102	Y90						L		TRAC	Y90	3.02E+07		
TX109	Y90						L		TRAC	Y90	2.98E+07		
TX111	Y90						L		TRAC	Y90	2.97E+07		
TX112	Y90						L		TRAC	Y90	2.92E+07		
T101	Y90						L		TRAC	Y90	2.92E+07		
TX110	Y90						L		TRAC	Y90	2.91E+07		
TX103	Y90						L		TRAC	Y90	2.91E+07		
BX109	Y90						L		TRAC	Y90	2.90E+07		
BY108	Y90						L		TRAC	Y90	2.90E+07		
B102	Y90						L		TRAC	Y90	2.90E+07		
BY105	Y90						L		TRAC	Y90	2.90E+07		
BY107	Y90						L		TRAC	Y90	2.90E+07		
BY110	Y90						L		TRAC	Y90	2.90E+07		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Liquids [Sketch ES-VAL-CR21]
 ASA Value: 1.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U110	Y90						L		TRAC	Y90	2.90E+07		
BY111	Y90						L		TRAC	Y90	2.90E+07		
TX105	Y90						L		TRAC	Y90	2.90E+07		
T104	Y90						L		TRAC	Y90	2.90E+07		
BY106	Y90						L		TRAC	Y90	2.90E+07		
T102	Y90						L		TRAC	Y90	2.90E+07		
TY103	Y90						L		TRAC	Y90	2.90E+07		
BY104	Y90						L		TRAC	Y90	2.90E+07		
T103	Y90						L		TRAC	Y90	2.90E+07		
BX112	Y90						L		TRAC	Y90	2.90E+07		
BY101	Y90						L		TRAC	Y90	2.89E+07		
BY112	Y90						L		TRAC	Y90	2.89E+07		
B104	Y90						L		TRAC	Y90	2.89E+07		
B106	Y90						L		TRAC	Y90	2.22E+07		
C201	Y90						L		TRAC	Y90	1.89E+07		
C109	Y90						L		TRAC	Y90	1.45E+07		
S106	Y90						L		TRAC	Y90	1.30E+07		
TX102	Y90						L		TRAC	Y90	1.27E+07		
Minimum Plot Limit: 1.00E+07 Bq/L													
C111	Y90						L		TRAC	Y90	9.04E+06		
BX108	Y90						L		TRAC	Y90	8.85E+06		
B105	Y90						L		TRAC	Y90	7.62E+06		
B107	Y90						L		TRAC	Y90	7.22E+06		
TX114	Y90						L		TRAC	Y90	7.13E+06		
TY101	Y90						L		TRAC	Y90	6.79E+06		
T109	Y90						L		TRAC	Y90	5.99E+06		
TY105	Y90						L		TRAC	Y90	5.90E+06		
TX113	Y90						L		TRAC	Y90	5.57E+06		
TX115	Y90						L		TRAC	Y90	5.55E+06		
BX107	Y90						L		TRAC	Y90	3.94E+06		
TX116	Y90						L		TRAC	Y90	2.62E+06		
T108	Y90						L		TRAC	Y90	1.91E+06		
TY104	Y90						L		TRAC	Y90	1.70E+06		
C204	Y90						L		TRAC	Y90	1.09E+06		
TX117	Y90						L		TRAC	Y90	1.08E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Liquids [Sketch ES-VAL-CR21]
 ASA Value: 1.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U109	Y90						L		TRAC	Y90	3.36E+05		
U108	Y90						L		TRAC	Y90	2.12E+05		
C108	Y90						L		TRAC	Y90	2.02E+05		
U105	Y90						L		TRAC	Y90	1.00E+05		
U103	Y90						L		TRAC	Y90	7.76E+04		
C112	Y90						L		TRAC	Y90	4.68E+04		
A105	Y90						L		TRAC	Y90	1.89E+04		
A106	Y90						L		TRAC	Y90	5.51E+02		
TX107	Y90						L		TRAC	Y90	3.07E+02		
U106	Y90						L		TRAC	Y90	1.15E+02		
C104	Y90						L		TRAC	Y90	9.42E+01		
U104	Y90						L		TRAC	Y90	3.61E+01		
TX104	Y90						L		TRAC	Y90	1.17E+01		
S107	Y90						L		TRAC	Y90	8.83E+00		
S102	Y90						L		TRAC	Y90	6.43E+00		
S105	Y90						L		TRAC	Y90	1.41E+00		
SX101	Y90						L		TRAC	Y90	6.09E-01		
TY106	Y90						L		TRAC	Y90	6.00E-01		
TX106	Y90						L		TRAC	Y90	1.44E-01		
C102	Y90						L		TRAC	Y90	1.05E-01		
C203	Y90						L		TRAC	Y90	5.97E-02		
AX101	Y90						L		TRAC	Y90	5.09E-02		
C110	Y90						L		TRAC	Y90	3.72E-02		
S104	Y90						L		TRAC	Y90	1.10E-02		
AX102	Y90						L		TRAC	Y90	3.27E-05		
C202	Y90						L		TRAC	Y90	8.53E-07		
BX101	Y90						L		TRAC	Y90	4.97E-10		
T107	Y90						L		TRAC	Y90	2.28E-10		
B101	Y90						L		TRAC	Y90	7.27E-21		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Solids [Sketch ES-VAL-CR22]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AX104	Y90						S		TRAC	Y90	1.74E+13		4
ASA Value: 1.70E+12 Bq/L													22
BY110	Y90						S		TRAC	Y90	8.02E+11		
BX109	Y90						S		TRAC	Y90	6.78E+11		
TY105	Y90						S		TRAC	Y90	6.35E+11		
BY111	Y90						S		TRAC	Y90	5.04E+11		
C203	Y90						S		TRAC	Y90	3.95E+11		
U107	Y90						S		TRAC	Y90	2.30E+11		
TY104	Y90						S		TRAC	Y90	1.92E+11		
A104	Y90						S		TRAC	Y90	1.57E+11		
BY106	Y90						S		TRAC	Y90	1.56E+11		
C111	Y90						S		TRAC	Y90	1.47E+11		
C106	Y90						S		TRAC	Y90	1.33E+11		
A101	Y90						S		TRAC	Y90	1.26E+11		
BY107	Y90						S		TRAC	Y90	1.18E+11		
SX112	Y90						S		TRAC	Y90	1.01E+11		
SX107	Y90						S		TRAC	Y90	9.41E+10		
TX110	Y90						S		TRAC	Y90	9.05E+10		
BX107	Y90						S		TRAC	Y90	7.64E+10		
C102	Y90						S		TRAC	Y90	7.46E+10		
T107	Y90						S		TRAC	Y90	7.29E+10		
TY103	Y90						S		TRAC	Y90	6.43E+10		
S111	Y90						S		TRAC	Y90	6.22E+10		
TX111	Y90						S		TRAC	Y90	5.91E+10		
BY104	Y90						S		TRAC	Y90	5.84E+10		
BX111	Y90						S		TRAC	Y90	5.49E+10		
BY105	Y90						S		TRAC	Y90	5.33E+10		
C105	Y90						S		TRAC	Y90	4.88E+10		
BY108	Y90						S		TRAC	Y90	4.63E+10		
SX115	Y90						S		TRAC	Y90	4.58E+10		
BX110	Y90						S		TRAC	Y90	4.49E+10		
C112	Y90						S		TRAC	Y90	4.41E+10		
S108	Y90						S		TRAC	Y90	4.16E+10		
BY101	Y90						S		TRAC	Y90	3.96E+10		
TX109	Y90						S		TRAC	Y90	3.71E+10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Solids [Sketch ES-VAL-CR22]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
C104	Y90						S		TRAC	Y90	3.56E+10		
T104	Y90						S		TRAC	Y90	3.42E+10		
SX105	Y90						S		TRAC	Y90	3.41E+10		
S107	Y90						S		TRAC	Y90	3.35E+10		
S101	Y90						S		TRAC	Y90	3.33E+10		
SX111	Y90						S		TRAC	Y90	3.15E+10		
SX108	Y90						S		TRAC	Y90	3.14E+10		
U110	Y90						S		TRAC	Y90	3.12E+10		
B103	Y90						S		TRAC	Y90	3.03E+10		
SX102	Y90						S		TRAC	Y90	2.97E+10		
SX101	Y90						S		TRAC	Y90	2.87E+10		
T101	Y90						S		TRAC	Y90	2.75E+10		
C107	Y90						S		TRAC	Y90	2.69E+10		
C110	Y90						S		TRAC	Y90	2.50E+10		
SX114	Y90						S		TRAC	Y90	2.43E+10		
S104	Y90						S		TRAC	Y90	2.37E+10		
BX102	Y90						S		TRAC	Y90	2.31E+10		
T103	Y90						S		TRAC	Y90	2.24E+10		
TX115	Y90						S		TRAC	Y90	2.06E+10		
B112	Y90						S		TRAC	Y90	1.98E+10		
TY106	Y90						S		TRAC	Y90	1.72E+10		
TX112	Y90						S		TRAC	Y90	1.52E+10		
TY102	Y90						S		TRAC	Y90	1.48E+10		
SX113	Y90						S		TRAC	Y90	1.39E+10		
T108	Y90						S		TRAC	Y90	1.36E+10		
SX110	Y90						S		TRAC	Y90	1.32E+10		
C101	Y90						S		TRAC	Y90	1.30E+10		
BX108	Y90						S		TRAC	Y90	1.25E+10		
SX109	Y90						S		TRAC	Y90	1.07E+10		
Minimum Plot Limit: 1.00E+10 Bq/L													
B107	Y90						S		TRAC	Y90	8.74E+09		
BY103	Y90						S		TRAC	Y90	7.79E+09		
C103	Y90						S		TRAC	Y90	5.39E+09		
B108	Y90						S		TRAC	Y90	5.18E+09		
BY112	Y90						S		TRAC	Y90	5.08E+09		

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WHC-SD-WM-ER-400, Rev. 0

ICF KH
4/14/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Single-Shell Tank Solids [Sketch ES-VAL-CR22]
 ASA Value: 1.70E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
U108	Y90						S		TRAC	Y90	5.02E+09		
C108	Y90						S		TRAC	Y90	4.64E+09		
S105	Y90						S		TRAC	Y90	3.96E+09		
BX103	Y90						S		TRAC	Y90	3.92E+09		
TX117	Y90						S		TRAC	Y90	3.62E+09		
S102	Y90						S		TRAC	Y90	3.57E+09		
TY101	Y90						S		TRAC	Y90	3.32E+09		
S106	Y90						S		TRAC	Y90	3.17E+09		
BY109	Y90						S		TRAC	Y90	3.15E+09		
BX105	Y90						S		TRAC	Y90	2.17E+09		
TX116	Y90						S		TRAC	Y90	1.93E+09		
U111	Y90						S		TRAC	Y90	1.70E+09		
BY102	Y90						S		TRAC	Y90	1.61E+09		
BX112	Y90						S		TRAC	Y90	1.50E+09		
TX114	Y90						S		TRAC	Y90	1.26E+09		
TX108	Y90						S		TRAC	Y90	9.03E+08		
BX106	Y90						S		TRAC	Y90	8.86E+08		
B102	Y90						S		TRAC	Y90	8.02E+08		
TX113	Y90						S		TRAC	Y90	7.82E+08		
TX105	Y90						S		TRAC	Y90	5.67E+08		
T105	Y90						S		TRAC	Y90	5.38E+08		
BX104	Y90						S		TRAC	Y90	4.27E+08		
TX101	Y90						S		TRAC	Y90	3.53E+08		
B104	Y90						S		TRAC	Y90	3.07E+08		
B105	Y90						S		TRAC	Y90	1.33E+08		
T112	Y90						S		TRAC	Y90	8.91E+07		
TX118	Y90						S		TRAC	Y90	8.74E+07		
T110	Y90						S		TRAC	Y90	8.45E+07		
B110	Y90						S		TRAC	Y90	8.11E+07		
T111	Y90						S		TRAC	Y90	7.17E+07		
B109	Y90						S		TRAC	Y90	6.14E+07		
U203	Y90						S		TRAC	Y90	6.73E+06		
U201	Y90						S		TRAC	Y90	4.17E+06		
U202	Y90						S		TRAC	Y90	3.53E+06		
B106	Y90						S		TRAC	Y90	2.16E+06		

WHC-SD-WM-ER-400, Rev. 0

ICF KH
7/14/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Liquids [Sketch ESK-VAL-CR23]
 ASA Value: 3.38E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY102	Am-241	10/1/88	102-SY-1-2		5.06E+01	uCi/gm	P	Supernate	Braun	Am-241	2.06E+09	2.04E+09	16
AN104	Am241	7/1/84					P	Supernatant	Wastren	Am-241	4.22E+08	4.15E+08	7
Preliminary ASA Value: 3.38E+07 Bq/L													27
ASA Value: 3.19E+07 Bq/L													
AN107	Am-241	2/28/85	R-3638	1.35	8.75E+02	uCi/l	L	Liquor	Braun	Am-241	3.24E+07	3.19E+07	*
AN107	Am-241	3/6/85	RAT-AN107-1B		7.57E+02	uCi/l	P	Supernate	Braun	Am-241	2.80E+07	2.76E+07	
AN107	Am241	3/7/85					P	Supernatant	Wastren	Am-241	2.80E+07	2.76E+07	
SY-103	Am241						L		TRAC	Am-241		1.25E+07	
SY-101	Am241	12/1/91	BOBB62	1.1	2.10E-01	uCi/g	L	PRIMARY RESULT	TCD	Am-241	8.55E+06	8.50E+06	
SY-101	Am241	12/1/91	BOBB62	1.1	1.94E-01	uCi/g	L	PRIMARY RESULT	TCD	Am-241	7.90E+06	7.86E+06	
SY-101	Am241	12/1/91	BOBB62	1.1	1.81E-01	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	7.37E+06	7.33E+06	
SY-102	Am241						L		TRAC	Am-241		6.66E+06	
AW104	Am241	9/20/82		1.259	1.09E+02	nCi/g	L	NO SOLIDS	RAW	Am-241	5.08E+06	4.98E+06	
AN107	Am-241	2/28/85	R-3637	1.41	1.30E+02	uCi/l	P	Supernate	Braun	Am-241	4.81E+06	4.73E+06	
AN107	Am-241	3/6/85	RAT-AN107-1A		1.11E+02	uCi/l	P	Supernate	Braun	Am-241	4.11E+06	4.04E+06	
AW-106	Am241						L		TRAC	Am-241		3.37E+06	
AN102	Am241	8/1/91					P	Supernate	Wastren	Am-241	3.30E+06	3.28E+06	
SY-101	Am241						L		TRAC	Am-241		3.17E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
SY102	Am-241	11/1/84	R-3318A	1.42	1.90E+01	uCi/l	P	Supernate	Braun	Am-241	7.03E+05	6.92E+05	
SY102	Am-241	11/1/84	R-3316A	1.41	1.02E+01	uCi/l	P	Supernate	Braun	Am-241	3.77E+05	3.71E+05	
SY103	Am241	7/1/85					P	Supernatant	Wastren	Am-241	3.19E+05	3.14E+05	
AW102	Am241	1/18/85	R-3181	1.359	6.47E+00	uCi/L	L	LIQUID	RAW	Am-241	2.39E+05	2.36E+05	
AW101	Am241	1/13/86	R-7694	1.18	6.40E+00	uCi/L	U	UNKNOWN	RAW	Am-241	2.37E+05	2.33E+05	
AW102	Am241	8/1/88					P	Supernatant	Wastren	Am-241	1.82E+05	1.80E+05	
AP105	Am241	3/1/93	BO8VX9	1.3335	4.05E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.50E+05	1.49E+05	
AP103	Am241	1/1/88					P	Supernatant	Wastren	Am-241	8.44E+04	8.35E+04	
AW103	Am241	1/29/88	T-5959		2.26E+00	uCi/L	P	SUPERNATANT	RAW	Am-241	8.36E+04	8.27E+04	
SY-101	Am241	12/1/91	BOB282	1.235	1.65E-03	uCi/g	L	PRIMARY RESULT	TCD	Am-241	7.55E+04	7.51E+04	
AN106	Am241	3/1/91					P	Supernatant	Wastren	Am-241	5.55E+04	5.52E+04	
AN106	Am241	7/21/87	R2456	1.233	1.45E+00	uCi/L	P	SUPERNATE	RAW	Am-241	5.37E+04	5.30E+04	
AN106	Am-241	2/19/87	R-2456	1.223	1.45E+00	uCi/l	P	Supernate	Braun	Am-241	5.37E+04	5.30E+04	
AN101	Am241	12/19/90	R-8520	1.15	1.40E+00	uCi/L	O	OTHER	RAW	Am-241	5.18E+04	5.15E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.36E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	5.03E+04	5.02E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.36E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	5.03E+04	5.02E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.36E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	5.03E+04	5.02E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.36E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	5.03E+04	5.02E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.36E-03	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	5.03E+04	5.02E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.30E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	4.81E+04	4.80E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.30E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	4.81E+04	4.80E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.30E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	4.81E+04	4.80E+04	
AP101	Am241	7/1/93	BOB2K7	1.1	1.30E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	4.81E+04	4.80E+04	
AW101	Am241	6/1/90					P	Supernatant	Wastren	Am-241	4.44E+04	4.41E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Liquids [Sketch ESK-VAL-CR23]
 ASA Value: 3.38E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Am241	10/13/87	T-3328		1.08E+00	uCi/L	P	SUPERNATANT	RAW	Am-241	4.00E+04	3.95E+04	
SY-101	Am241	12/1/91	B0BB23	1.144	1.04E+00	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	3.85E+04	3.83E+04	
AP104	Am241	5/12/87	T-8530		9.77E-01	uCi/L	L	NO SOLIDS	RAW	Am-241	3.61E+04	3.57E+04	
AW103	Am241	12/11/88	R-4345		9.50E-01	uCi/L	L	NO SOLIDS	RAW	Am-241	3.52E+04	3.48E+04	
AP104	Am241	8/5/87	T-513		9.28E-01	uCi/L	O	OTHER	RAW	Am-241	3.43E+04	3.39E+04	
SY-101	Am241	12/1/91	B0B280	1.3275	6.86E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	3.37E+04	3.35E+04	
SY101	Am241	5/1/91					L	Liquid	Wastren	Am-241	3.24E+04	3.22E+04	
AW102	Am241	12/1/93	B0BC12	1.026	8.50E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	3.15E+04	3.14E+04	
SY-101	Am241	12/1/91	B0B279	1.305	6.47E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	3.12E+04	3.11E+04	
SY-101	Am241	12/1/91	B0B281	1.2425	6.36E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.93E+04	2.91E+04	
SY-101	Am241	12/1/91	B0B279	1.305	5.93E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.86E+04	2.85E+04	
AW102	Am241	12/1/93	B0BC12	1.026	7.67E-01	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	2.84E+04	2.83E+04	
SY-101	Am241	12/1/91	B0B282	1.235	5.97E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.73E+04	2.71E+04	
SY101	Am241	5/1/91					L	Liquid	Wastren	Am-241	2.70E+04	2.68E+04	
AN101	Am241	2/7/85	T-2832	0.976	7.30E-01	uCi/L	L	NO SOLIDS	RAW	Am-241	2.70E+04	2.66E+04	
SY-101	Am241	12/1/91	B0B282	1.235	5.86E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	2.68E+04	2.66E+04	
SY-101	Am241	12/1/91	B0B280	1.3275	5.11E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.51E+04	2.50E+04	
SY-101	Am241	12/1/91	B0BB23	1.144	6.80E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	2.52E+04	2.50E+04	
SY-101	Am241	12/1/91	B0B280	1.3275	5.01E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.46E+04	2.45E+04	
SY-101	Am241	12/1/91	B0B281	1.2425	5.36E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	2.46E+04	2.45E+04	
SY-101	Am241	12/1/91	B0B279	1.305	4.97E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	2.40E+04	2.39E+04	
AP106	Am241	3/1/93	B0B2B9	0.9975	6.37E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	2.36E+04	2.35E+04	
AP106	Am241	3/1/93	B0B2B9	0.9975	6.37E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	2.36E+04	2.35E+04	
SY-101	Am241	12/1/91	B0B279	1.305	4.86E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.34E+04	2.33E+04	
AW106	Am241	8/1/88					P	Supernatant	Wastren	Am-241	2.28E+04	2.26E+04	
SY-101	Am241	12/1/91	B0B280	1.3275	4.55E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	2.23E+04	2.22E+04	
SY-101	Am241	12/1/91	B0B282	1.235	4.67E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.13E+04	2.12E+04	
SY-101	Am241	12/1/91	B0B281	1.2425	4.47E-04	uCi/g	L	DUPLICATE RESULT	TCD	Am-241	2.06E+04	2.05E+04	
AP105	Am241	3/1/93	B0BVX4	1.1	5.23E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.94E+04	1.93E+04	
AP105	Am241	3/1/93	B0B3D1	1.334	5.20E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.92E+04	1.92E+04	
SY-101	Am241	12/1/91	B0B281	1.2425	4.20E-04	uCi/g	L	PRIMARY RESULT	TCD	Am-241	1.93E+04	1.92E+04	
AP105	Am241	3/1/93	B0BVX4	1.1	5.00E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.85E+04	1.84E+04	
AP102	Am241	4/1/93	B0B2T9	1.19	4.88E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.81E+04	1.80E+04	
SY-101	Am241	12/1/91	B0BB23	1.144	4.90E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.81E+04	1.80E+04	
AP105	Am241	3/1/93	B0B3C9	1.3	4.66E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.72E+04	1.72E+04	
AP105	Am241	3/1/93	B0BVX1	1.34	4.67E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.73E+04	1.72E+04	
AP105	Am241	3/1/93	B0BVX7	1.298	4.63E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.71E+04	1.71E+04	
AP105	Am241	3/1/93	B0BVX3	1.3	4.51E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.67E+04	1.66E+04	
AP105	Am241	3/1/93	B0B3C8	1.327	4.47E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.65E+04	1.65E+04	
AP105	Am241	3/1/93	B0BVX8	1.377	4.34E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.61E+04	1.60E+04	
AP106	Am241	3/1/93	B0B2C2	0.997	4.28E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.58E+04	1.58E+04	
AP105	Am241	3/1/93	B0B3C9	1.3	4.26E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.58E+04	1.57E+04	
AP105	Am241	3/1/93	B0BVX6	1.3375	4.21E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.56E+04	1.55E+04	
AP105	Am241	3/1/93	B0B3D2	1.329	4.15E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.54E+04	1.53E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Liquids [Sketch ESK-VAL-CR23]
 ASA Value: 3.38E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AP102	Am241	4/1/93	B0B2M9	1.195	4.12E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.52E+04	1.52E+04	
AP106	Am241	3/1/93	B0B2C2	0.997	4.11E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.52E+04	1.52E+04	
SY-101	Am241	12/1/91	B0B9X3	1.2668	4.10E-01	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	1.52E+04	1.51E+04	
AP105	Am241	3/1/93	B0B8VX0	1.345	4.04E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.49E+04	1.49E+04	
AP105	Am241	3/1/93	B0B3D2	1.329	4.05E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.50E+04	1.49E+04	
SY-101	Am241	12/1/91	B0B8B41	1.072	4.00E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.48E+04	1.47E+04	
AP105	Am241	3/1/93	B0B8VX5	1.3375	3.94E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.46E+04	1.45E+04	
AP105	Am241	3/1/93	B0B8VX1	1.34	3.91E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.45E+04	1.44E+04	
AP105	Am241	3/1/93	B0B8VX7	1.298	3.84E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.42E+04	1.42E+04	
AP102	Am241	4/1/93	B0B2T9	1.19	3.79E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.40E+04	1.40E+04	
AP105	Am241	3/1/93	B0B3C8	1.327	3.79E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.40E+04	1.40E+04	
AP105	Am241	3/1/93	B0B8VX5	1.3375	3.76E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.39E+04	1.39E+04	
AP105	Am241	3/1/93	B0B8VX8	1.377	3.76E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.39E+04	1.39E+04	
AP102	Am241	4/1/93	B0B2N1	1.195	3.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.38E+04	1.38E+04	
AP102	Am241	4/1/93	B0B2T9	1.19	3.72E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.38E+04	1.37E+04	
AP105	Am241	3/1/93	B0B8VX2	1.2975	3.72E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.38E+04	1.37E+04	
AP102	Am241	4/1/93	B0B2T9	1.19	3.69E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.37E+04	1.36E+04	
AP105	Am241	3/1/93	B0B8VX6	1.3375	3.66E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.35E+04	1.35E+04	
AP102	Am241	4/1/93	B0B2N4	1.21	3.64E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.35E+04	1.34E+04	
AP105	Am241	3/1/93	B0B8VX0	1.345	3.64E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.35E+04	1.34E+04	
AP105	Am241	3/1/93	B0B8VX2	1.2975	3.57E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.32E+04	1.32E+04	
AP105	Am241	3/1/93	B0B3D1	1.334	3.44E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.27E+04	1.27E+04	
SY-101	Am241	12/1/91	B0B9X3	1.2668	3.40E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.26E+04	1.25E+04	
AP102	Am241	4/1/93	B0B2N4	1.21	3.28E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.21E+04	1.21E+04	
AP102	Am241	4/1/93	B0B2N1	1.195	3.18E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.18E+04	1.17E+04	
AP102	Am241	4/1/93	B0B2M9	1.195	3.06E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.13E+04	1.13E+04	
AP105	Am241	3/1/93	B0B8VX3	1.3	3.00E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.11E+04	1.11E+04	
AP105	Am241	3/1/93	B0B8VX9	1.3335	2.95E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.09E+04	1.09E+04	
AP102	Am241	4/1/93	B0B2M9	1.195	2.91E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.08E+04	1.07E+04	
AP102	Am241	4/1/93	B0B2M9	1.195	2.86E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.06E+04	1.06E+04	
AP102	Am241	4/1/93	B0B2N4	1.21	2.86E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	1.06E+04	1.06E+04	
SY-101	Am241	12/1/91	B0B9X3	1.2668	2.80E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.04E+04	1.03E+04	
AP102	Am241	4/1/93	B0B2N4	1.21	2.71E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	1.00E+04	1.00E+04	
AP105	Am241	3/1/93	B0B3D1	1.334	2.64E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	9.77E+03	9.74E+03	
AP105	Am241	3/1/93	B0B3D1	1.334	2.63E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	9.73E+03	9.70E+03	
AW103	Am241	10/1/88	R-3760		2.60E-01	uCi/L	P	SUPERNATANT	RAW	Am-241	9.62E+03	9.52E+03	
AW103	Am241	12/11/88	R-4347		1.90E-01	uCi/L	P	SUPERNATANT	RAW	Am-241	7.03E+03	6.96E+03	
AW102	Am241	12/1/93	B0B2C12	1.026	1.75E-01	uCi/L	L	PRIMARY RESULT	TCD	Am-241	6.48E+03	6.46E+03	
AP106	Am241	3/1/93	B0B2C3	0.9925	1.44E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	5.33E+03	5.31E+03	
AP106	Am241	3/1/93	B0B2C3	0.9925	1.29E-04	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	4.77E+03	4.76E+03	
AW103	Am-241	8/1/84	2836		1.25E-01	uCi/l	P	Supernate	Braun	Am-241	4.63E+03	4.55E+03	
AP106	Am241	3/1/93	B0B2B8	0.9965	1.00E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	3.70E+03	3.69E+03	
AP106	Am241	3/1/93	B0B2C1	0.996	9.07E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	3.36E+03	3.35E+03	
AP106	Am241	3/1/93	B0B2B8	0.9965	7.19E-05	uCi/mL	L	PRIMARY RESULT	TCD	Am-241	2.66E+03	2.65E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Liquids [Sketch ESK-VAL-CR23]
 ASA Value: 3.38E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW103	Am-241	8/1/84	2750		6.20E-02	uCi/l	P	Supernate	Braun	Am-241	2.29E+03	2.26E+03	
SY-101	Am241	12/1/91	BOB9Z7	1.1736	4.10E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.52E+03	1.51E+03	
SY-101	Am241	12/1/91	BOB9Z7	1.1736	3.50E-02	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	1.30E+03	1.29E+03	
SY-101	Am241	12/1/91	BOB9Z7	1.1736	3.50E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	1.30E+03	1.29E+03	
AW102	Am241	12/1/93	BOBC12	1.026	2.37E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	8.77E+02	8.75E+02	
AW102	Am241	12/1/93	BOBC12	1.026	2.31E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	8.55E+02	8.53E+02	
AW106	Am241	12/1/93	BO8VS6	1.0867	2.27E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	8.40E+02	8.38E+02	
AW106	Am241	12/1/93	BO8VS6	1.0867	2.02E-02	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	7.47E+02	7.46E+02	
AW103	Am241	9/13/90	COMP475		1.10E-02	nCi/g	P	SUPERNATANT	RAW	Am-241	4.48E+02	4.45E+02	
AP103	Am241	11/1/91	BOBC21	1.0027	1.14E-02	uCi/L	L	PRIMARY RESULT	TCD	Am-241	4.22E+02	4.20E+02	
AP103	Am241	11/1/91	BOBC21	1.0027	1.13E-02	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	4.18E+02	4.16E+02	
AW105	Am-241	5/1/86	RAT-AW105-2A	1.079	9.26E-06	uCi/gm	P	Supernate	Braun	Am-241	3.70E+02	3.65E+02	
AP102	Am241	5/1/88					P	Supernatant	Wastren	Am-241	2.75E+02	2.72E+02	
AP102	Am241	5/18/88	R-8473		7.44E-03	uCi/L	P	SUPERNATE	RAW	Am-241	2.75E+02	2.72E+02	
AW102	Am241	12/1/93	BO8WF7	1.1	6.66E-06	uCi/mL	L	DUPLICATE RESULT	TCD	Am-241	2.46E+02	2.46E+02	
AW103	Am241	1/1/90					P	Supernatant	Wastren	Am-241	2.31E+02	2.29E+02	
AW103	Am241	9/13/90			4.80E-03	nCi/g	P	SUPERNATANT	RAW	Am-241	1.95E+02	1.94E+02	
AW103	Am-241	1/23/90	RAT-AW103-1B		4.80E-06	uCi/gm	P	Supernate	Braun	Am-241	1.95E+02	1.94E+02	
AP102	Am241	5/18/88	R-8471		4.14E-03	uCi/L	P	SUPERNATE	RAW	Am-241	1.53E+02	1.52E+02	
AW101	Am241	7/21/87			2.20E+00	nCi/L	P	SUPERNATANT	RAW	Am-241	8.14E+01	8.04E+01	
AP102	Am241	5/18/88	R-8469		1.03E-03	uCi/L	P	SUPERNATE	RAW	Am-241	3.81E+01	3.77E+01	
AP102	Am241	5/18/88	R-8472		9.12E-04	uCi/L	P	SUPERNATE	RAW	Am-241	3.37E+01	3.34E+01	
AP104	Am241	3/1/88	WI-550	1.05	9.12E-04	uCi/L	L	LIQUID	RAW	Am-241	3.37E+01	3.34E+01	
AP104	Am-241	3/1/88	RAT-AP104-1B	1.01	8.48E-04	uCi/l	P	Supernate	Braun	Am-241	3.14E+01	3.10E+01	
AP102	Am241	5/18/88	WI-549		7.84E-04	uCi/L	L	NO SOLIDS	RAW	Am-241	2.90E+01	2.87E+01	
AP104	Am241	6/1/88					P	Supernatant	Wastren	Am-241	2.90E+01	2.87E+01	
AP104	Am241	3/1/88	WI-549	1.02	7.64E-04	uCi/L	L	LIQUID	RAW	Am-241	2.83E+01	2.80E+01	
AP104	Am-241	3/1/88	RAT-AP104-1A	1.03	1.96E-04	uCi/l	P	Supernate	Braun	Am-241	7.25E+00	7.17E+00	
AP102	Am241	5/18/88	WI-112		1.03E-04	uCi/L	L	NO SOLIDS	RAW	Am-241	3.81E+00	3.77E+00	
AW102	Am241	12/1/93	BO8WF6	1.1	6.73E-06	uCi/L	L	PRIMARY RESULT	TCD	Am-241	2.49E-01	2.49E-01	
AW102	Am241	5/15/92	R1626		6.73E-06	uCi/L	U	UNKNOWN	RAW	Am-241	2.49E-01	2.48E-01	
AW102	Am241	12/1/93	BO8WF6	1.1	6.66E-06	uCi/L	L	DUPLICATE RESULT	TCD	Am-241	2.46E-01	2.46E-01	
AW102	Am241	12/1/93	BO8WF7	1.1	6.66E-06	uCi/L	L	PRIMARY RESULT	TCD	Am-241	2.46E-01	2.46E-01	
AW102	Am241	5/15/92	R1627		6.66E-06	uCi/L	U	UNKNOWN	RAW	Am-241	2.46E-01	2.45E-01	
AW-103	Am241						L		TRAC	Am-241		1.38E-02	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR24]
 ASA Value: 2.69E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 2.69E+09 Bq/L													
SY102	Am241	10/1/88	102-SY-3C		5.06E+01	uCi/g	R	SLURRY	RAW	Am241	3.00E+09	2.97E+09	*18
SY102	Am241	3/23/89			4.53E+01	uCi/gm	S	Solids	RAW	Am241	2.68E+09	2.66E+09	
SY102	Am-241	11/1/84	R-3316B	1.53	2.36E+01	uCi/gm	S	Supernate/Solids	Braun	Am-241	1.34E+09	1.31E+09	
SY102	Am241	2/27/90	12M HNO3		1.89E+01	uCi/g	S	Solids	RAW	Am241	1.12E+09	1.11E+09	
SY102	Am241	2/27/90	9M HNO3		1.55E+01	uCi/g	S	Solids	RAW	Am241	9.18E+08	9.11E+08	
SY102	Am241	2/27/90	6M HNO3		1.50E+01	uCi/g	S	Solids	RAW	Am241	8.88E+08	8.81E+08	
SY102	Am241	2/27/90	3M HNO3		1.12E+01	uCi/g	S	Solids	RAW	Am241	6.63E+08	6.58E+08	
SY102	Am-241	11/1/84	R-3318B	1.61	1.04E+01	uCi/gm	S	Supernate/Solids	Braun	Am-241	6.20E+08	6.10E+08	
SY102	Am241	10/1/88	102-SY-T4C	1.52	9.82E+00	uCi/g	S	SOLIDS	RAW	Am241	5.52E+08	5.47E+08	
SY102	Am-241	11/1/84	R-3317B	1.59	7.12E+00	uCi/gm	S	Supernate/Solids	Braun	Am-241	4.19E+08	4.12E+08	
AN102	Am241	8/1/91					G	Sludge	Wastren	Am241	3.81E+08	3.79E+08	
SY-101	Am241	12/1/91	BOBBB5	1.6	2.30E+00	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.36E+08	1.35E+08	
AW105	Am241	5/1/90	B08W17	1.415	2.18E+03	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.14E+08	1.13E+08	
AW105	Am241	5/1/90	B08W87	1.4275	1.80E+03	nCi/g	S	PRIMARY RESULT	TCD	Am241	9.51E+07	9.44E+07	
SY-101	Am241	12/1/91	BOBBB5	1.6	1.40E+00	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.29E+07	8.25E+07	
SY102	Am241	10/1/88	102-SY-4B	1.8	9.73E-01	uCi/g	S	SOLIDS	RAW	Am241	6.48E+07	6.42E+07	
SY102	Am-241	10/1/88	102-SY-4B	1.8	9.73E-01	uCi/gm	G	Sludge	Braun	Am-241	6.48E+07	6.42E+07	
SY102	Am241	10/1/88					G	Sludge	Wastren	Am241	6.48E+07	6.42E+07	
AW105	Am241	5/1/90	B08W17	1.415	1.17E+03	nCi/g	S	PRIMARY RESULT	TCD	Am241	6.13E+07	6.08E+07	
AN107	Am241	5/13/94	R4048	1.473	7.90E-01	uCi/g	G	Sludge	RAW	Am241	4.31E+07	4.30E+07	
AN107	Am241	5/13/94	R4047	1.464	6.00E-01	uCi/g	G	Sludge	RAW	Am241	3.25E+07	3.25E+07	
AW103	Am241	9/13/90	SRS1		5.10E+02	nCi/g	S	SOLIDS	RAW	Am241	3.02E+07	3.00E+07	
AN102	Am241	11/1/91		1.74	7.54E+02	nCi/ML	S	Solids	RAW	Am241	2.79E+07	2.78E+07	
AW105	Am241	5/1/90	B08WF2	1.28	5.04E+02	nCi/g	S	PRIMARY RESULT	TCD	Am241	2.39E+07	2.37E+07	
AW105	Am241	5/1/90	B08W90	1.39	4.00E+02	nCi/g	S	PRIMARY RESULT	TCD	Am241	2.06E+07	2.04E+07	
AW105	Am241	5/1/90	B08W80	1.235	4.30E+02	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.96E+07	1.95E+07	
AW105	Am-241	2/24/87	T-7939	1.18	4.25E-01	uCi/gm	I	Composite	Braun	Am-241	1.86E+07	1.83E+07	
AW101	Am241	7/1/87					G	Sludge	Wastren	Am241	1.56E+07	1.54E+07	
AW103	Am241	9/13/90	AS1		2.61E+02	nCi/g	S	SOLIDS	RAW	Am241	1.55E+07	1.53E+07	
AW103	Am241	9/13/90	AS4		2.50E+02	nCi/g	S	SOLIDS	RAW	Am241	1.48E+07	1.47E+07	
AW103	Am241	9/13/90	SRS2		2.30E+02	nCi/g	S	SOLIDS	RAW	Am241	1.36E+07	1.35E+07	
SY-101	Am241	12/1/91	BOBBB5	1.6	2.28E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.35E+07	1.34E+07	
AW105	Am241	2/1/87					G	Sludge	Wastren	Am241	1.34E+07	1.32E+07	
AW105	Am241	5/1/90	B08W87	1.4275	2.50E+02	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.32E+07	1.31E+07	
AW105	Am-241	2/24/87	T-7942	1.41	2.50E-01	uCi/gm	I	Composite	Braun	Am-241	1.30E+07	1.29E+07	
AW105	Am-241	2/24/87	RAT-AW105-1	1.3	2.65E-01	uCi/gm	G	Sludge/Composite	Braun	Am-241	1.27E+07	1.26E+07	
SY-101	Am241	12/1/91	BOBB95	1.6	2.10E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.24E+07	1.24E+07	
SY-101	Am241	12/1/91	BOBB41	1.6	2.10E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.24E+07	1.24E+07	
SY101	Am241	5/1/91					T	Crust	Wastren	Am241	1.19E+07	1.18E+07	
SY101	Am241	5/1/91					S	Bulk, nonconv layr	Wastren	Am241	1.17E+07	1.16E+07	
SY101	Am241	5/1/91			1.95E-01	uCi/g	S	Core Sample	RAW	Am241	1.15E+07	1.15E+07	
SY-101	Am241	12/1/91	BOBB41	1.6	1.92E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.14E+07	1.13E+07	
SY-101	Am241	12/1/91	BOBB41	1.6	1.86E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.10E+07	1.10E+07	

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Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR24]
 ASA Value: 2.69E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Am241	12/1/91	BOBB95	1.6	1.80E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.07E+07	1.06E+07	
SY-101	Am241	12/1/91	BOBB23	1.6	1.70E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.01E+07	1.00E+07	
SY-101	Am241	12/1/91	BOB280	1.3305	2.02E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.94E+06	9.90E+06	
SY101	Am241	5/1/91					S	Bulk, nonconv layr	Wastren	Am241	9.89E+06	9.83E+06	
SY-101	Am241	12/1/91	BOB279	1.306	2.04E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	9.86E+06	9.81E+06	
AN102	Am241	2/28/85	R-3640	1.39	2.68E+02	uCi/L	S	Solids	RAW	Am241	9.92E+06	9.76E+06	
SY-101	Am241	12/1/91	BOB279	1.306	1.98E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.57E+06	9.52E+06	
SY-101	Am241	12/1/91	BOBB23	1.6	1.60E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.47E+06	9.43E+06	
AW103	Am241	9/13/90	COMP475		1.60E+02	nCi/g	S	SOLIDS	RAW	Am241	9.47E+06	9.41E+06	
SY-101	Am241	12/1/91	BOB280	1.3305	1.91E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.40E+06	9.36E+06	
AW103	Am241	9/13/90	AS2		1.50E+02	nCi/g	S	SOLIDS	RAW	Am241	8.88E+06	8.82E+06	
AW103	Am-241	1/23/90	RAT-AW103-1	1.75	1.35E-01	uCi/gm	S	Solids	Braun	Am-241	8.74E+06	8.67E+06	
AW103	Am241	1/1/90					G	Sludge	Wastren	Am241	8.73E+06	8.66E+06	
SY-101	Am241	12/1/91	BOB280	1.3305	1.76E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	8.66E+06	8.62E+06	
SY-101	Am241	12/1/91	BOB280	1.3305	1.73E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.52E+06	8.47E+06	
SY-101	Am241	12/1/91	BOB281	1.244	1.81E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.33E+06	8.29E+06	
AW103	Am241	9/13/90	AS3		1.40E+02	nCi/g	S	SOLIDS	RAW	Am241	8.29E+06	8.23E+06	
SY-101	Am241	12/1/91	BOB281	1.244	1.77E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.15E+06	8.11E+06	
SY-101	Am241	12/1/91	BOBBC7	1.6	1.37E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	8.11E+06	8.07E+06	
AW103	Am241	1/1/89			1.34E+02	nCi/g	S	SOLIDS	RAW	Am241	7.93E+06	7.86E+06	
SY-101	Am241	12/1/91	BOB281	1.244	1.70E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.82E+06	7.79E+06	
SY-101	Am241	12/1/91	BOB279	1.306	1.62E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.83E+06	7.79E+06	
SY-101	Am241	12/1/91	BOBBD5	1.6	1.30E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.70E+06	7.66E+06	
AW103	Am241	1/1/89			1.30E+02	nCi/g	S	SOLIDS	RAW	Am241	7.70E+06	7.62E+06	
SY-101	Am241	12/1/91	BOB281	1.244	1.66E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.64E+06	7.60E+06	
SY-101	Am241	12/1/91	BOB282	1.235	1.66E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.59E+06	7.55E+06	
AW103	Am241	9/13/90			1.25E+02	nCi/g	Y	SLURRY/SLUDGE	RAW	Am241	7.40E+06	7.35E+06	
SY-101	Am241	12/1/91	BOB282	1.235	1.61E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.36E+06	7.32E+06	
SY-101	Am241	12/1/91	BOB282	1.235	1.57E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	7.17E+06	7.14E+06	
SY-101	Am241	12/1/91	BOB282	1.235	1.55E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	7.08E+06	7.05E+06	
AW103	Am-241	1/23/90	RAT-AW103-1C		1.20E-01	uCi/gm	S	Solids	Braun	Am-241	7.10E+06	7.05E+06	
SY-101	Am241	12/1/91	BOB279	1.306	1.42E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.86E+06	6.83E+06	
SY-101	Am241	12/1/91	BOBBX7	1.6	1.15E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.81E+06	6.77E+06	
SY-101	Am241	12/1/91	BOBBD5	1.6	1.10E-01	uCi/g	S	DUPLICATE RESULT	TCD	Am241	6.51E+06	6.48E+06	
SY-101	Am241	12/1/91	BOBBX7	1.6	1.04E-01	uCi/g	S	PRIMARY RESULT	TCD	Am241	6.16E+06	6.13E+06	
SY-101	Am241	12/1/91	BOBBX7	1.6	9.90E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	5.86E+06	5.83E+06	
AW103	Am-241	2/27/87	7935	1.54	9.30E-02	uCi/gm	S	Solids	Braun	Am-241	5.30E+06	5.23E+06	
AW103	Am241	9/13/90	SRS3		8.60E+01	nCi/g	S	SOLIDS	RAW	Am241	5.09E+06	5.06E+06	
AW105	Am-241	5/1/86	RAT-AW105-2B	1.2	1.12E-01	uCi/gm	G	Sludge	Braun	Am-241	4.97E+06	4.90E+06	
AW103	Am241	9/13/90	SRS4		8.30E+01	nCi/g	S	SOLIDS	RAW	Am241	4.91E+06	4.88E+06	
AW103	Am241	1/1/89			8.28E+01	nCi/g	S	SOLIDS	RAW	Am241	4.90E+06	4.85E+06	
SY-101	Am241	12/1/91	BOB9X3	1.6	8.00E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	4.74E+06	4.71E+06	
AW103	Am-241	2/27/87	7936	1.51	8.00E-02	uCi/gm	S	Solids	Braun	Am-241	4.47E+06	4.41E+06	
AW105	Am-241	2/24/87	T-7940	1.43	8.30E-02	uCi/gm	I	Composite	Braun	Am-241	4.39E+06	4.34E+06	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR24]
 ASA Value: 2.69E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW105	Am241	5/1/90	B08W81	1.4	8.30E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	4.30E+06	4.27E+06	
AW103	Am-241	2/27/87	7934		6.10E-02	uCi/gm	S	Solids	Braun	Am-241	3.61E+06	3.57E+06	
SY-101	Am241	12/1/91	B0B9Z7	1.6	6.00E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	3.55E+06	3.53E+06	
SY-101	Am241	12/1/91	B0B9Z7	1.6	5.80E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.43E+06	3.42E+06	
SY101	Am241	5/1/91					S	Solids	Wastren	Am241	3.07E+06	3.05E+06	
AW103	Am-241	2/27/87	7932	1.47	5.60E-02	uCi/gm	S	Solids	Braun	Am-241	3.05E+06	3.01E+06	
SY-101	Am241	12/1/91	B0B9Z7	1.6	5.10E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	3.02E+06	3.00E+06	
SY-101	Am241	12/1/91	B0B9X3	1.6	4.80E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	2.84E+06	2.83E+06	
SY101	Am241	5/1/91					S	Solids	Wastren	Am241	2.68E+06	2.66E+06	
AW103	Am241	1/1/89			4.02E+01	nCi/g	S	SOLIDS	RAW	Am241	2.38E+06	2.36E+06	
AW103	Am241	1/1/89			3.88E+01	nCi/g	I	COMPOSITE	RAW	Am241	2.30E+06	2.28E+06	
AW105	Am241	5/1/90	B08W16	1.41	4.20E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	2.19E+06	2.17E+06	
AW105	Am241	5/1/90	B08W82	1.36	4.20E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	2.11E+06	2.10E+06	
AW105	Am-241	2/24/87	T-7941	1.34	4.20E-02	uCi/gm	I	Composite	Braun	Am-241	2.08E+06	2.06E+06	
AW103	Am-241	2/27/87	7930	1.4	3.90E-02	uCi/gm	S	Solids	Braun	Am-241	2.02E+06	1.99E+06	
SY-101	Am241	12/1/91	B0B9X3	1.6	3.30E-02	uCi/g	S	DUPLICATE RESULT	TCD	Am241	1.95E+06	1.94E+06	
AW103	Am-241	2/27/87	7933		3.30E-02	uCi/gm	S	Solids	Braun	Am-241	1.95E+06	1.93E+06	
SY-101	Am241	12/1/91	B0B9X3	1.6	3.20E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	1.89E+06	1.89E+06	
AW105	Am241	5/1/90	B08W13	1.34	3.70E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.83E+06	1.82E+06	
AW105	Am241	5/1/90	B08W13	1.34	2.90E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.44E+06	1.43E+06	
AW105	Am241	5/1/90	B08W79	1.235	2.80E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	1.28E+06	1.27E+06	
AW105	Am-241	2/24/87	T-7937	1.17	2.80E-02	uCi/gm	I	Composite	Braun	Am-241	1.21E+06	1.20E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
AW105	Am241	5/1/90	B08W15	1.355	1.90E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	9.53E+05	9.45E+05	
SY-101	Am241	12/1/91	B0BBR6	1.6	1.60E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	9.47E+05	9.43E+05	
AW103	Am-241	2/27/87	7938	1.56	1.60E-02	uCi/gm	S	Solids	Braun	Am-241	9.24E+05	9.12E+05	
AW105	Am241	5/1/90	B08W15	1.355	1.80E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	9.02E+05	8.96E+05	
AW105	Am241	5/1/90	B08WF1	1.22	1.90E+01	nCi/g	S	PRIMARY RESULT	TCD	Am241	8.58E+05	8.51E+05	
AW103	Am-241	2/27/87	7928	1.28	1.70E-02	uCi/gm	S	Solids	Braun	Am-241	8.05E+05	7.95E+05	
AW103	Am241	9/13/90	ASC		1.20E+01	nCi/g	S	SOLIDS	RAW	Am241	7.10E+05	7.06E+05	
AW103	Am-241	2/27/87	7929	1.38	1.40E-02	uCi/gm	S	Solids	Braun	Am-241	7.15E+05	7.06E+05	
AW102	Am241	2/14/86	R-8120	1.54	1.75E+01	uCi/L	R	SLURRY	RAW	Am241	6.48E+05	6.38E+05	
AW103	Am-241	2/27/87	7927	1.22	1.40E-02	uCi/gm	S	Solids	Braun	Am-241	6.32E+05	6.24E+05	
SY-101	Am241	12/1/91	B0BBR2	1.6	1.00E-02	uCi/g	S	PRIMARY RESULT	TCD	Am241	5.92E+05	5.89E+05	
SY-101	Am241	12/1/91	B0BBQ6	1.6	5.00E-03	uCi/g	S	PRIMARY RESULT	TCD	Am241	2.96E+05	2.95E+05	
AW103	Am-241	8/1/84	2838A	1.402	4.40E+00	uCi/l	S	Solids	Braun	Am-241	1.63E+05	1.60E+05	
SY103	Am241	7/1/85					R	Slurry	Wastren	Am241	1.49E+05	1.47E+05	
AW103	Am-241	8/1/84	2836B	1.517	4.00E+00	uCi/l	S	Solids	Braun	Am-241	1.48E+05	1.46E+05	
AW102	Am241	2/4/86	T-5578	1.47	3.61E+00	uCi/L	R	SLURRY	RAW	Am241	1.34E+05	1.32E+05	
AW102	Am-241	2/4/86	T-5578	1.47	3.61E+00	uCi/l	R	Slurry	Braun	Am-241	1.34E+05	1.32E+05	
AW102	Am241	2/4/86	T-5579	1.49	3.50E+00	uCi/L	R	SLURRY	RAW	Am241	1.30E+05	1.28E+05	
AW102	Am-241	2/4/86	T-5579	1.49	3.50E+00	uCi/l	R	Slurry	Braun	Am-241	1.30E+05	1.28E+05	
AN103	Am241	9/25/87	TK092587	1.56	3.34E-06	Ci/L	G	Sludge	RAW	Am241	1.24E+05	1.22E+05	
AW103	Am-241	12/11/88	R-4346B	1.49	2.00E-03	uCi/gm	S	Solids	Braun	Am-241	1.10E+05	1.09E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR24]
 ASA Value: 2.69E+09 Bq/L

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Tank	Reported Radionuclide	Date	Tank Waste Characterization Sample Information						Source	Radionuclide Information			ID
			Sample #	Density	Reported Value	Unit	Code	Sample State		Radionuclide	Bq/L	Bq/L Decayed	
AN103	Am241	2/1/90					R	Slurry	Wastren	Am241	8.51E+04	8.44E+04	
AP102	Am241	4/1/93	BOB2L7	1.2	1.49E-03	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	5.51E+04	5.50E+04	
AW103	Am-241	8/1/84	2837	1.426	1.46E+00	uCi/l	S	Solids	Braun	Am-241	5.40E+04	5.31E+04	
AW101	Am-241	6/28/90	RAT-AW101-1	1.54	1.20E+00	uCi/l	I	Composite	Braun	Am-241	4.44E+04	4.41E+04	
AP102	Am241	4/1/93	BOB2M2	1.2	9.83E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	3.64E+04	3.63E+04	
AW103	Am-241	8/1/84	2838B	1.65	9.60E-01	uCi/l	S	Solids	Braun	Am-241	3.55E+04	3.49E+04	
AP102	Am241	4/1/93	BOB2M3	1.2	8.59E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	3.18E+04	3.17E+04	
AP102	Am241	4/1/93	BOB2M2	1.2	7.14E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	2.64E+04	2.63E+04	
AP102	Am241	4/1/93	BOB2N4	1.2	6.69E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	2.48E+04	2.47E+04	
AP102	Am241	4/1/93	BOB2M3	1.2	5.79E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	2.14E+04	2.14E+04	
AP102	Am241	4/1/93	BOB2L7	1.2	5.39E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.99E+04	1.99E+04	
AP102	Am241	4/1/93	BOB2N4	1.2	5.39E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.99E+04	1.99E+04	
AP102	Am241	4/1/93	BOB2L9	1.2	5.27E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.95E+04	1.94E+04	
AP102	Am241	4/1/93	BOB2M1	1.205	5.01E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.85E+04	1.85E+04	
AP102	Am241	4/1/93	BOB2M0	1.2	4.84E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.79E+04	1.79E+04	
AP102	Am241	4/1/93	BOB2M1	1.205	4.76E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.76E+04	1.76E+04	
AW103	Am-241	8/1/84	2750B	1.415	4.80E-01	uCi/l	S	Solids	Braun	Am-241	1.78E+04	1.75E+04	
AP102	Am241	4/1/93	BOB2M6	1.205	4.50E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.67E+04	1.66E+04	
AP102	Am241	4/1/93	BOB2N4	1.2	4.49E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.66E+04	1.66E+04	
AP102	Am241	4/1/93	BOB2T9	1.2	4.39E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.62E+04	1.62E+04	
AP102	Am241	4/1/93	BOB2M0	1.2	4.32E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.60E+04	1.59E+04	
AP102	Am241	4/1/93	BOB2L9	1.2	4.25E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.57E+04	1.57E+04	
AP102	Am241	4/1/93	BOB2M6	1.205	4.26E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.58E+04	1.57E+04	
AP102	Am241	4/1/93	BOB2M7	1.2	4.08E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.51E+04	1.51E+04	
AP102	Am241	4/1/93	BOB2N4	1.2	3.89E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.44E+04	1.44E+04	
AP102	Am241	4/1/93	BOB2N4	1.2	3.51E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.30E+04	1.30E+04	
AP102	Am241	4/1/93	BOB2M7	1.2	3.40E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.26E+04	1.25E+04	
AP102	Am241	4/1/93	BOB2T9	1.2	3.35E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.24E+04	1.24E+04	
AP102	Am241	4/1/93	BOB2L7	1.2	3.28E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	1.21E+04	1.21E+04	
AP102	Am241	4/1/93	BOB2L7	1.2	3.23E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	1.20E+04	1.19E+04	
AP102	Am241	4/1/93	BOB2M4	1.195	2.59E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	9.58E+03	9.56E+03	
AP102	Am241	4/1/93	BOB2M5	1.19	2.57E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	9.51E+03	9.48E+03	
AP102	Am241	4/1/93	BOB2L8	1.21	2.49E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	9.21E+03	9.19E+03	
AP102	Am241	4/1/93	BOB2M5	1.19	2.33E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	8.62E+03	8.60E+03	
AP102	Am241	4/1/93	BOB2L8	1.21	2.26E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	8.36E+03	8.34E+03	
AP102	Am241	4/1/93	BOB2N4	1.2	2.15E-04	uCi/mL	S	DUPLICATE RESULT	TCD	Am241	7.96E+03	7.93E+03	
AP102	Am241	4/1/93	BOB2M4	1.195	2.11E-04	uCi/mL	S	PRIMARY RESULT	TCD	Am241	7.81E+03	7.79E+03	
AW103	Am241	9/12/90	COMP610		1.20E+02	nCi/L	S	SOLIDS	RAW	Am241	4.44E+03	4.41E+03	
AN103	Am241	1/18/85	R-3182		3.54E-02	uCi/L	G	Sludge	RAW	Am241	1.31E+03	1.29E+03	
AW103	Am241	1/1/89			4.22E+00	nCi/g	S		RAW	Am241	2.50E+05	6.13E+02	
SY101	Am241	11/18/90			1.60E-02	uCi/L	T	Crust Sample	RAW	Am241	5.92E+02	5.88E+02	
AW101	Am241	1/13/86	R-7695	1.29	9.18E-03	uCi/L	R	SLURRY	RAW	Am241	3.40E+02	3.35E+02	
AW103	Am241	1/1/89			8.55E+02	nCi/g	S		RAW	Am241	5.06E+07	3.08E+02	
AP102	Am-241	4/29/88	R-8469		1.03E-03	uCi/l	I	Composite	Braun	Am-241	3.81E+01	3.77E+01	

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Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR24]
 ASA Value: 2.69E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW103	Am241	1/1/89			3.36E+02	nCi/g	S		RAW	Am241	1.99E+07	3.00E-01	
AW103	Am241	1/1/89			1.18E+02	nCi/g	S		RAW	Am241	6.99E+06	2.61E-04	
AW103	Am241	1/1/89			7.40E+01	nCi/g	S		RAW	Am241	4.38E+06	4.06E-07	
AW103	Am241	1/1/89			4.78E+01	nCi/g	S		RAW	Am241	2.83E+06	6.50E-10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Double-Shell Tank Liquids [Sketch ES-VAL-CR25]
 ASA Value: 1.3E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 1.3E+05 Bq/L													
AN107	Cm244	3/8/85					P	Supernatant	Wastren	Cm-243/244	1.85E+05	1.27E+05	*
AN107	Cm-244	3/6/85	RAT-AN107-1B		5	uCi/l	P	Supernate	Braun	Cm-243/244	1.85E+05	1.27E+05	*
SY-103	Cm244						L		TRAC	Cm-243/244		1.97E+04	
SY-102	Cm244						L		TRAC	Cm-243/244		1.05E+04	
SY-101	Cm244						L		TRAC	Cm-243/244		4.54E+03	
AP102	Cm243/244	5/18/88	R-8471		0.0366	uCi/L	P	SUPERNATANT	RAW	Cm-243/244	1.35E+03	1.05E+03	
AP102	Cm244	5/1/88					P	Supernatant	Wastren	Cm-243/244	1.35E+03	1.05E+03	
Minimum Plot Limit: 1.00E+03 Bq/L													
AW-106	Cm244						L		TRAC	Cm-243/244		9.63E+02	
AW103	Cm244	1/1/90					P	Supernatant	Wastren	Cm-243/244	5.29E+02	4.37E+02	
AW103	Cm242/243	9/13/90			0.011	nCi/g	P	SUPERNATANT	RAW	Cm-243/244	4.48E+02	3.80E+02	
AW103	Cm-243/244	1/23/90	RAT-AW103-1B		1.1E-05	uCi/gm	P	Supernate	Braun	Cm-243/244	4.48E+02	3.71E+02	
AP102	Cm243/244	5/18/88	R-8472		0.00753	uCi/L	P	SUPERNATANT	RAW	Cm-243/244	2.79E+02	2.17E+02	
AP102	Cm243/244	5/18/88	R-8473		0.00414	uCi/L	P	SUPERNATANT	RAW	Cm-243/244	1.53E+02	1.19E+02	
AP102	Cm243/244	5/18/88	WI-112		0.00327	uCi/L	L	NO SOLIDS	RAW	Cm-243/244	1.21E+02	9.41E+01	
AP102	Cm243/244	5/18/88	R-8469		0.00327	uCi/L	P	SUPERNATANT	RAW	Cm-243/244	1.21E+02	9.41E+01	
AP104	Cm-244	3/1/88	RAT-AP104-1A	1.03	0.00133	uCi/l	P	Supernate	Braun	Cm-243/244	4.92E+01	3.79E+01	
AP104	Cm244	3/1/88					P	Supernatant	Wastren	Cm-243/244	4.92E+01	3.79E+01	
AP104	Cm244	3/1/88	WI-549	1.02	0.00111	uCi/L	L	LIQUID	RAW	Cm-243/244	4.11E+01	3.17E+01	
AP102	Cm243/244	5/18/88	WI-549		0.0011	uCi/L	L	NO SOLIDS	RAW	Cm-243/244	4.07E+01	3.16E+01	
AP104	Cm244	3/1/88	WI-550	1.05	0.0011	uCi/L	L	LIQUID	RAW	Cm-243/244	4.07E+01	3.14E+01	
AP104	Cm-244	3/1/88	RAT-AP104-1B	1.01	0.0011	uCi/l	P	Supernate	Braun	Cm-243/244	4.07E+01	3.14E+01	
AW103	Cm243/244	9/13/90	COMP475		0.00087	nCi/g	P	SUPERNATANT	RAW	Cm-243/244	3.54E+01	3.01E+01	
AW-103	Cm244						L		TRAC	Cm-243/244		9.91E-05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Double-Shell Tank Solids [Sketch ES-VAL-CR26]
 ASA Value: 1.1E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	ID
					Value	Unit						Decayed	
ASA Value: 1.1E+07 Bq/L													
SY102	Cm243/244	10/1/88	102-SY-3C		0.24	uCi/g	R	SLURRY	RAW	Cm-243/244	1.42E+07	1.12E+07	*
SY102	Cm-243/244	10/1/88	102-SY-1-2		0.24	uCi/gm	P	Supernate(Solids)	Braun	Cm-243/244	9.77E+06	7.70E+06	
SY102	Cm243/244	10/1/88	102-SY-4B	1.8	0.043	uCi/g	S	SOLIDS	RAW	Cm-243/244	2.86E+06	2.26E+06	
SY102	Cm-243/244	10/1/88	102-SY-4B	1.8	0.043	uCi/gm	G	Sludge	Braun	Cm-243/244	2.86E+06	2.26E+06	
SY102	Cm244	10/1/88					G	Sludge	Wastren	Cm-243/244	2.86E+06	2.26E+06	
AN102	Cm243/244	11/1/91		1.74	55.1	nCi/ML	S	Solids	RAW	Cm-243/244	2.04E+06	1.81E+06	
SY102	Cm243/244	10/1/88	102-SY-T4C	1.52	0.019	uCi/g	S	SOLIDS	RAW	Cm-243/244	1.07E+06	8.43E+05	
AW103	Cm243/244	9/13/90	AS1		8.8	nCi/g	S	SOLIDS	RAW	Cm-243/244	5.21E+05	4.42E+05	
AW103	Cm243/244	9/13/90	SRS1		3.5	nCi/g	S	SOLIDS	RAW	Cm-243/244	2.07E+05	1.76E+05	
AW103	Cm243/244	9/13/90	AS4		2.5	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.48E+05	1.26E+05	
AW103	Cm243/244	9/13/90	SRS4		2.3	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.36E+05	1.16E+05	
AW103	Cm243/244	9/13/90	SRS2		2.1	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.24E+05	1.06E+05	
AW103	Cm243/244	9/13/90	COMP475		2	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.18E+05	1.01E+05	
AW103	Cm243/244	9/13/90	ASC		1.9	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.12E+05	9.55E+04	
AW103	Cm243/244	9/13/90	SRS3		1.9	nCi/g	S	SOLIDS	RAW	Cm-243/244	1.12E+05	9.55E+04	
AW103	Cm243/244	9/13/90	AS3		1.5	nCi/g	S	SOLIDS	RAW	Cm-243/244	8.88E+04	7.54E+04	
AW103	Cm243/244	9/13/90	AS2		1.4	nCi/g	S	SOLIDS	RAW	Cm-243/244	8.29E+04	7.04E+04	
AW103	Cm-243/244	1/23/90	RAT-AW103-1C		0.0012	uCi/gm	S	Solids	Braun	Cm-243/244	7.10E+04	5.89E+04	
AN103	Cm244	2/1/90					R	Slurry	Wastren	Cm-243/244	1.55E+04	1.29E+04	
Minimum Plot Limit: 1.00E+04 Bq/L													
AN103	Cm244	9/25/87	TK092587	1.56	2.85E-07	Ci/L	G	Sludge	RAW	Cm-243/244	1.05E+04	8.00E+03	
AP102	Cm-243/244	4/29/88	R-8469		0.00327	uCi/l	I	Composite	Braun	Cm-243/244	1.21E+02	9.39E+01	
AW103	Cm243/244	9/12/90	COMP610		1.2	nCi/L	S	SOLIDS	RAW	Cm-243/244	4.44E+01	3.77E+01	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cobalt 60 Double-Shell Tank Liquids [Sketch ES-VAL-CR27]
ASA Value: 8.77E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
Preliminary ASA Value: 9.6E+06 Bq/L													23
ASA Value: 8.77E+06 Bq/L													
AN107	Co-60	3/6/85	RAT-AN107-1A		8.59E+02	uCi/l	P	Supernate	Braun	Co-60	3.18E+07	8.77E+06	*
AN107	Co-60	2/28/85	R-3637	1.41	8.59E+02	uCi/l	P	Supernate	Braun	Co-60	3.18E+07	8.75E+06	
AN107	Co-60	3/6/85	RAT-AN107-1B		8.47E+02	uCi/l	P	Supernate	Braun	Co-60	3.13E+07	8.65E+06	
AN107	Co60	3/1/85					P	Supernatant	Wastren	Co60	3.13E+07	8.65E+06	
AN102	Co60	2/28/85	R-3640	1.39	635	uCi/L	P	Supernatant	RAW	Co60	2.35E+07	6.47E+06	
AW102	Co60	1/4/83		1.25	2.63E+02	uCi/L	L	LIQUID	RAW	Co60	9.73E+06	2.02E+06	
AP105	Co60	3/1/93	B08VX3	1.3	4.33E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.60E+06	1.26E+06	
AP105	Co60	3/1/93	B08VX2	1.2975	4.05E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.50E+06	1.18E+06	
AP105	Co60	3/1/93	B08VX8	1.377	2.07E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	7.66E+05	6.02E+05	
AP105	Co60	3/1/93	B08VX6	1.3375	1.97E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	7.29E+05	5.73E+05	
AP105	Co60	3/1/93	B08VX7	1.298	1.92E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	7.10E+05	5.59E+05	
AP105	Co60	3/1/93	B08VX1	1.34	1.36E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	5.03E+05	3.96E+05	
AP105	Co60	3/1/93	B083C8	1.327	1.33E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.92E+05	3.87E+05	
AP105	Co60	3/1/93	B08VX1	1.34	1.31E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.85E+05	3.81E+05	
AN102	Co60	8/1/91					P	Supernate	Wastren	Co60	5.85E+05	3.74E+05	
AP105	Co60	3/1/93	B08VX4	1.1	1.21E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.48E+05	3.52E+05	
AP105	Co60	3/1/93	B08VX0	1.345	1.21E-02	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.48E+05	3.52E+05	
AP105	Co60	3/1/93	B083C8	1.327	1.17E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.33E+05	3.40E+05	
AP105	Co60	3/1/93	B08VX0	1.345	1.14E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.22E+05	3.32E+05	
AP105	Co60	3/1/93	B08VX5	1.3375	1.12E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.14E+05	3.26E+05	
AP105	Co60	3/1/93	B08VX4	1.1	1.10E-02	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.07E+05	3.20E+05	
AP103	Co60	11/1/91	B08C21	1.0027	1.20E+01	uCi/L	L	PRIMARY RESULT	TCD	Co60	4.44E+05	2.93E+05	
AP103	Co60	11/1/91	B08C21	1.0027	1.10E+01	uCi/L	L	PRIMARY RESULT	TCD	Co60	4.07E+05	2.69E+05	
AW102	Co60	12/1/93	B08C12	1.026	8.19E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	3.03E+05	2.63E+05	
AN101	Co60	2/7/85	T-2832	0.976	2.57E+01	uCi/L	L	NO SOLIDS	RAW	Co60	9.51E+05	2.60E+05	
AW106	Co60	12/1/93	B08VS6	1.0867	8.03E+00	uCi/L	L	DUPLICATE RESULT	TCD	Co60	2.97E+05	2.58E+05	
AP103	Co60	11/1/91	B08C21	1.0027	1.00E+01	uCi/L	L	PRIMARY RESULT	TCD	Co60	3.70E+05	2.44E+05	
AP103	Co60	11/1/91	B08C21	1.0027	9.60E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	3.55E+05	2.35E+05	
AP103	Co60	11/1/91	B08C21	1.0027	9.32E+00	uCi/L	L	DUPLICATE RESULT	TCD	Co60	3.45E+05	2.28E+05	
AW102	Co60	12/1/93	B08C12	1.026	6.77E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	2.50E+05	2.17E+05	
AW102	Co60	12/1/93	B08C12	1.026	6.41E+00	uCi/L	L	DUPLICATE RESULT	TCD	Co60	2.37E+05	2.06E+05	
AW102	Co60	12/1/93	B08C12	1.026	5.19E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	1.92E+05	1.67E+05	
AW106	Co60	12/1/93	B08VS6	1.0867	4.71E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	1.74E+05	1.51E+05	
AP104	Co60	6/1/88					P	Supernatant	Wastren	Co60	2.46E+05	1.04E+05	
AP104	Co60	3/1/88	WI-550	1.05	6.79E+00	uCi/L	L	LIQUID	RAW	Co60	2.51E+05	1.03E+05	
AP104	Co-60	3/1/88	RAT-AP104-1A	1.03	6.74E+00	uCi/l	P	Supernate	Braun	Co-60	2.49E+05	1.02E+05	
AP104	Co-60	3/1/88	RAT-AP104-1B	1.01	6.64E+00	uCi/l	P	Supernate	Braun	Co-60	2.46E+05	1.00E+05	
AP104	Co60	3/1/88	WI-549	1.02	6.65E+00	uCi/L	L	LIQUID	RAW	Co60	2.46E+05	1.00E+05	
AP102	Co60	5/18/88	R-8473		6.35E+00	uCi/L	P	SUPERNATANT	RAW	Co60	2.35E+05	9.86E+04	
AP102	Co60	5/18/88	R-8472		6.13E+00	uCi/L	P	SUPERNATANT	RAW	Co60	2.27E+05	9.52E+04	
AP102	Co60	5/18/88	R-8469		5.89E+00	uCi/L	P	SUPERNATANT	RAW	Co60	2.18E+05	9.15E+04	
AP102	Co60	5/18/88	R-8471		5.81E+00	uCi/L	P	SUPERNATANT	RAW	Co60	2.15E+05	9.03E+04	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cobalt 60 Double-Shell Tank Liquids [Sketch ES-VAL-CR27]
ASA Value: 8.77E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW102	Co60	12/1/93	B0BC12	1.026	2.57E+00	uCi/L	L	PRIMARY RESULT	TCD	Co60	9.51E+04	8.25E+04	
AN106	Co-60	11/28/83	8500		8.02E+00	uCi/l	P	Supernate	Braun	Co-60	2.97E+05	6.93E+04	
AP104	Co60	8/5/87	T-513		3.62E+00	uCi/L	O	OTHER	RAW	Co60	1.34E+05	5.07E+04	
AP104	Co60	7/10/87			3.62E+00	uCi/L	O	OTHER	RAW	Co60	1.34E+05	5.03E+04	
AP104	Co-60	7/10/87	T-513		3.62E+00	uCi/l	P	Supernate	Braun	Co-60	1.34E+05	5.03E+04	
AP104	Co60	5/12/87	T-8530		2.56E+00	uCi/L	L	NO SOLIDS	RAW	Co60	9.47E+04	3.48E+04	
AP104	Co-60	4/22/87	T-8530		2.56E+00	uCi/l	P	Supernate	Braun	Co-60	9.47E+04	3.45E+04	
AP106	Co60	3/1/93	B0B2G2	0.9965	1.14E-03	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	4.22E+04	3.32E+04	
AP106	Co60	3/1/93	B0B2G2	0.9965	1.12E-03	uCi/mL	L	PRIMARY RESULT	TCD	Co60	4.14E+04	3.26E+04	
AP106	Co60	3/1/93	B0B2C0	0.9995	6.30E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.33E+04	1.83E+04	
AP106	Co60	3/1/93	B0B2C5	0.994	5.57E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.06E+04	1.62E+04	
AP106	Co60	3/1/93	B0B2C5	0.994	5.03E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.86E+04	1.46E+04	
Minimum Plot Limit: 1.00E+04 Bq/L													
AP101	Co60	7/1/93	B0B2K7	1.1	2.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.01E+04	8.30E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.01E+04	8.30E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.01E+04	8.30E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.01E+04	8.30E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.73E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	1.01E+04	8.30E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.68E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	9.92E+03	8.15E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.68E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	9.92E+03	8.15E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.68E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	9.92E+03	8.15E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.68E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	9.92E+03	8.15E+03	
AP101	Co60	7/1/93	B0B2K7	1.1	2.68E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	9.92E+03	8.15E+03	
AP106	Co60	3/1/93	B0B2B9	0.9975	2.19E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	8.10E+03	6.37E+03	
AP106	Co60	3/1/93	B0B2C0	0.9995	2.05E-04	uCi/mL	L	PRIMARY RESULT	TCD	Co60	7.59E+03	5.96E+03	
AP106	Co60	3/1/93	B0B2C0	0.9995	1.95E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	7.22E+03	5.67E+03	
AP106	Co60	3/1/93	B0B2B9	0.9975	1.85E-04	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	6.85E+03	5.38E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.90E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.55E+03	2.12E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.90E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.55E+03	2.12E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.90E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.55E+03	2.12E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.90E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	2.55E+03	2.12E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.15E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.28E+03	1.89E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.15E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.28E+03	1.89E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.15E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.28E+03	1.89E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.15E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.28E+03	1.89E+03	
AP107	Co60	8/1/93	B08W54	1.1	6.15E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.28E+03	1.89E+03	
AP107	Co60	8/1/93	B08W54	1.1	5.55E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.05E+03	1.71E+03	
AP107	Co60	8/1/93	B08W54	1.1	5.55E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.05E+03	1.71E+03	
AP107	Co60	8/1/93	B08W54	1.1	5.55E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.05E+03	1.71E+03	
AP107	Co60	8/1/93	B08W54	1.1	5.55E-05	uCi/mL	L	PRIMARY RESULT	TCD	Co60	2.05E+03	1.71E+03	
AP107	Co60	8/1/93	B08W54	1.1	4.19E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.55E+03	1.29E+03	
AP107	Co60	8/1/93	B08W54	1.1	4.19E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.55E+03	1.29E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Double-Shell Tank Liquids [Sketch ES-VAL-CR27]
 ASA Value: 8.77E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AP107	Co60	8/1/93	B08W54	1.1	4.19E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.55E+03	1.29E+03	
AP107	Co60	8/1/93	B08W54	1.1	4.19E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.55E+03	1.29E+03	
AP107	Co60	8/1/93	B08W54	1.1	4.19E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Co60	1.55E+03	1.29E+03	
AP102	Co60	5/1/88					P	Supernatant	Wastren	Co60	1.26E+03	5.26E+02	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cobalt 60 Double-Shell Tank Solids [Sketch ES-VAL-CR28]
ASA Value: 1.42E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
Preliminary ASA Value: 1.6E+07 Bq/L													24
ASA Value: 1.42E+07 Bq/L													
AW105	Co60	5/1/90	B08W87	1.4275	1100000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	2.62E+07	1.42E+07	*
AW103	Co60	1/1/89			0.51	uCi/g	S	SOLIDS	RAW	Co60	3.02E+07	1.38E+07	
AW103	Co60	1/1/89			0.48	uCi/g	S	SOLIDS	RAW	Co60	2.84E+07	1.29E+07	
SY102	Co-60	11/1/84	R-3316B	1.53	0.708	uCi/gm	S	Supernate/Solids	Braun	Co-60	4.01E+07	1.06E+07	
AW105	Co60	5/1/90	B08W87	1.4275	720000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	1.71E+07	9.29E+06	
AW105	Co60	5/1/90	B08W82	1.36	740000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	1.68E+07	9.10E+06	
SY-101	Co60	12/1/91	BOBBR2	1.6	0.22	uCi/g	S	PRIMARY RESULT	TCD	Co60	1.30E+07	8.69E+06	
SY102	Co-60	11/1/84	R-3317B	1.59	0.504	uCi/gm	S	Supernate/Solids	Braun	Co-60	2.97E+07	7.82E+06	
SY103	Co60	9/1/86	12	1.6	582	uCi/L	S	Core Segment	RAW	Co60	2.15E+07	7.22E+06	
SY102	Co60	1/10/85	R-3316	1.54	617	uCi/L	S	Solids	RAW	Co60	2.28E+07	6.18E+06	
SY102	Co-60	1/10/85	R-3316	1.54	617	uCi/l	S	Supernate/Solids	Braun	Co-60	2.28E+07	6.18E+06	
AW105	Co60	5/1/90	B08W80	1.235	550000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	1.13E+07	6.14E+06	
AW105	Co-60	2/24/87	T-7942	1.41	457	uCi/l	I	Composite	Braun	Co-60	1.69E+07	6.04E+06	
AW105	Co60	2/18/87	7942	1.41	457	uCi/L	G	Sludge	RAW	Co60	1.69E+07	6.03E+06	
AW105	Co-60	2/24/87	T-7941	1.34	447	uCi/l	I	Composite	Braun	Co-60	1.65E+07	5.91E+06	
AW105	Co60	2/18/87	7941	1.34	447	uCi/L	G	Sludge	RAW	Co60	1.65E+07	5.90E+06	
AW103	Co-60	2/27/87	7930	1.4	0.315	uCi/gm	S	Solids	Braun	Co-60	1.63E+07	5.84E+06	
AW105	Co60	5/1/90	B08W81	1.4	350000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	8.17E+06	4.43E+06	
AW105	Co60	5/1/90	B08W79	1.235	390000	dis/min/g	S	PRIMARY RESULT	TCD	Co60	8.03E+06	4.35E+06	
AW105	Co-60	2/24/87	RAT-AW105-1	1.3	301	uCi/l	G	Sludge/Composite	Braun	Co-60	1.11E+07	3.98E+06	
AW103	Co-60	2/27/87	7936	1.51	0.198	uCi/gm	S	Solids	Braun	Co-60	1.11E+07	3.96E+06	
AW105	Co60	2/1/87					G	Sludge	Wastren	Co60	1.11E+07	3.93E+06	
SY-101	Co60	12/1/91	BOBBQ4	1.6	0.098	uCi/g	S	PRIMARY RESULT	TCD	Co60	5.80E+06	3.87E+06	
AW105	Co-60	2/24/87	T-7939	1.18	292	uCi/l	I	Composite	Braun	Co-60	1.08E+07	3.86E+06	
AW105	Co60	2/18/87	7939	1.18	292	uCi/L	G	Sludge	RAW	Co60	1.08E+07	3.85E+06	
AW103	Co60	1/1/89			0.13	uCi/g	I	COMPOSITE	RAW	Co60	7.70E+06	3.51E+06	
AW103	Co-60	2/27/87	7928	1.28	0.198	uCi/gm	S	Solids	Braun	Co-60	9.38E+06	3.35E+06	
AW103	Co-60	2/27/87	7932	1.47	0.171	uCi/gm	S	Solids	Braun	Co-60	9.30E+06	3.33E+06	
SY102	Co60	10/1/88					G	Sludge	Wastren	Co60	7.33E+06	3.23E+06	
SY102	Co-60	10/1/88	102-SY-4B	1.8	0.11	uCi/gm	G	Sludge	Braun	Co-60	7.33E+06	3.23E+06	
SY102	Co60	2/27/90	6M HNO3		0.0995	uCi/g	S	Solids	RAW	Co60	5.89E+06	3.12E+06	
AW103	Co-60	2/27/87	7935	1.54	0.153	uCi/gm	S	Solids	Braun	Co-60	8.72E+06	3.12E+06	
SY102	Co60	2/27/90	9M HNO3		0.099	uCi/g	S	Solids	RAW	Co60	5.86E+06	3.11E+06	
SY-101	Co60	12/1/91	BOBBQ7	1.6	0.076	uCi/g	S	PRIMARY RESULT	TCD	Co60	4.50E+06	3.00E+06	
AW105	Co-60	2/24/87	T-7940	1.43	225	uCi/l	I	Composite	Braun	Co-60	8.33E+06	2.98E+06	
AW105	Co60	2/18/87	7940	1.43	225	uCi/L	G	Sludge	RAW	Co60	8.33E+06	2.97E+06	
SY103	Co60	9/1/86	7	1.54	226	uCi/L	S	Core Segment	RAW	Co60	8.36E+06	2.81E+06	
AW105	Co-60	2/24/87	T-7937	1.17	206	uCi/l	I	Composite	Braun	Co-60	7.62E+06	2.72E+06	
AW105	Co60	2/18/87	7937	1.3	205	uCi/L	G	Sludge	RAW	Co60	7.59E+06	2.70E+06	
AW103	Co-60	2/27/87	7929	1.38	0.144	uCi/gm	S	Solids	Braun	Co-60	7.35E+06	2.63E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Double-Shell Tank Solids [Sketch ES-VAL-CR28]
 ASA Value: 1.42E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Co-60	2/27/87	7927	1.22	0.1576	uCi/gm	S	Solids	Braun	Co-60	7.11E+06	2.55E+06	
AP102	Co60	4/1/93	BOB2M2	1.2	0.0809	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	2.99E+06	2.38E+06	
AP102	Co60	4/1/93	BOB2M1	1.205	0.0749	uCi/mL	S	PRIMARY RESULT	TCD	Co60	2.77E+06	2.20E+06	
SY-101	Co60	12/1/91	BOBBR6	1.6	0.053	uCi/g	S	PRIMARY RESULT	TCD	Co60	3.14E+06	2.09E+06	
AP102	Co60	4/1/93	BOB2M1	1.205	0.0684	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	2.53E+06	2.01E+06	
SY102	Co60	2/27/90	3M HNO3		0.0619	uCi/g	S	Solids	RAW	Co60	3.66E+06	1.94E+06	
AP102	Co60	4/1/93	BOB2L7	1.2	0.0629	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	2.33E+06	1.85E+06	
SY103	Co60	9/1/86	2	1.52	126	uCi/L	S	Core Segment	RAW	Co60	4.66E+06	1.56E+06	
SY-101	Co60	12/1/91	BOBBQ6	1.6	0.036	uCi/g	S	PRIMARY RESULT	TCD	Co60	2.13E+06	1.42E+06	
AW101	Co-60	6/28/90	RAT-AW101-1	1.54	61.3	uCi/l	I	Composite	Braun	Co-60	2.27E+06	1.26E+06	
AW105	Co-60	2/24/87	T-7946	1.36	67.4	uCi/l	I	Composite	Braun	Co-60	2.49E+06	8.91E+05	
AW105	Co60	2/18/87	7946	1.36	67.4	uCi/L	G	Sludge	RAW	Co60	2.49E+06	8.89E+05	
AN103	Co60	2/1/90					R	Slurry	Wastren	Co60	1.41E+06	7.41E+05	
AP102	Co60	4/1/93	BOB2T9	1.2	0.0207	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	7.66E+05	6.09E+05	
AP102	Co60	4/1/93	BOB2M5	1.19	0.0181	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	6.70E+05	5.32E+05	
AN103	Co60	9/25/87	TK092587	1.56	3.71E-05	ci/L	G	Sludge	RAW	Co60	1.37E+06	5.30E+05	
AP102	Co60	4/1/93	BOB2N4	1.2	0.0169	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	6.25E+05	4.97E+05	
AP102	Co60	4/1/93	BOB2T9	1.2	0.0163	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	6.03E+05	4.79E+05	
AP102	Co60	4/1/93	BOB2N3	1.6	0.0123	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	4.55E+05	3.62E+05	
AP102	Co60	4/1/93	BOB2M3	1.2	0.0112	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	4.14E+05	3.29E+05	
AP102	Co60	4/1/93	BOB2N2	1.6	0.011	uCi/mL	S	DUPLICATE RESULT	TCD	Co60	4.07E+05	3.24E+05	
AP102	Co-60	4/29/88	R-8469		5.89	uCi/l	I	Composite	Braun	Co-60	2.18E+05	9.09E+04	
AN102	Co60	8/1/91					G	Sludge	Wastren	Co60	1.15E+05	7.35E+04	
AN102	Co60	11/1/91		1.74	0.429	uCi/L	S	Solids	RAW	Co60	1.59E+04	1.05E+04	
Minimum Plot Limit: 1.00E+04 Bq/L													
AW103	Co60	1/1/89			0.04	uCi/g	S		RAW	Co60	2.37E+06	2.67E+03	
SY103	Co60	9/1/86	PNL3SY#7		0.000147	mCi/L	Y	Slurry/Sludge	RAW	Co60	5.44E+03	1.82E+03	
SY103	Co60	9/1/86	2		8.32E-05	mCi/L	G	Sludge	RAW	Co60	3.08E+03	1.03E+03	
AW103	Co60	1/1/89			0.31	uCi/g	S		RAW	Co60	1.84E+07	5.14E+01	
AW103	Co60	1/1/89			0.34	uCi/g	S		RAW	Co60	2.01E+07	1.40E-01	
AW103	Co60	1/1/89			0.38	uCi/g	S		RAW	Co60	2.25E+07	3.87E-04	
AW103	Co60	1/1/89			0.34	uCi/g	S		RAW	Co60	2.01E+07	8.58E-07	
AW103	Co60	1/1/89			0.15	uCi/g	S		RAW	Co60	8.88E+06	9.39E-10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Cs137	12/1/91	BOB968	1.26	40000000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.48E+12	1.38E+12	14
AW102	Cs137	11/9/84	R-3302	1.32	5450000	uCi/L	L	FEED	RAW	Cs137	2.02E+11	1.60E+11	7
ASA Value: 6.1E+10 Bq/L													
SY103	Cs137	7/1/85					R	Supernatant Slurry	Wastren	Cs137	7.47E+10	6.00E+10	*25
AW105	Cs-137	8/17/88	T-805	1.01	1500000	uCi/l	P	Supernate	Braun	Cs-137	5.55E+10	4.79E+10	
SY-101	Cs137	12/1/91	BOB968	1.26	1350000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.00E+10	4.65E+10	
SY103	Cs137	5/10/88	11		1440000	uCi/L	P	Supernatant	RAW	Cs137	5.33E+10	4.57E+10	
SY103	Cs137	5/10/88	6		942000	uCi/L	P	Supernatant	RAW	Cs137	3.49E+10	2.99E+10	
SY-101	Cs137	12/1/91	BOB283	1.425	589	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	3.11E+10	2.89E+10	
SY-101	Cs137	12/1/91	BOB283	1.425	589	uCi/g	L	PRIMARY RESULT	TCD	Cs137	3.11E+10	2.89E+10	
SY-101	Cs137	12/1/91	BOB283	1.425	572	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	3.02E+10	2.81E+10	
SY-101	Cs137	12/1/91	BOB283	1.425	570	uCi/g	L	PRIMARY RESULT	TCD	Cs137	3.01E+10	2.80E+10	
AW102	Cs137	11/9/84	R-3303	1.4	940000	uCi/L	P	SUPERNATANT	RAW	Cs137	3.48E+10	2.75E+10	
AW104	Cs137	11/1/84					P	Supernatant	Wastren	Cs137	3.16E+10	2.50E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.302	669000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.48E+10	2.31E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.302	664000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	2.46E+10	2.29E+10	
SY-101	Cs137	12/1/91	BOB279	1.305	498.42	uCi/g	L	PRIMARY RESULT	TCD	Cs137	2.41E+10	2.24E+10	
SY103	Cs137	5/10/88	3		706000	uCi/L	P	Supernatant	RAW	Cs137	2.61E+10	2.24E+10	
SY101	Cs-137	5/30/86	R-6395	1.17	724000	uCi/l	P	Supernate	Braun	Cs-137	2.68E+10	2.20E+10	
SY101	Cs-137	5/30/86	R-6395	1.29	724000	uCi/l	P	Supernate	Braun	Cs-137	2.68E+10	2.20E+10	
SY-101	Cs137	12/1/91	BOB279	1.305	475.02	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	2.29E+10	2.14E+10	
SY101	Cs137	5/1/91					L	Liquid	Wastren	Cs137	2.31E+10	2.12E+10	
SY-101	Cs137	12/1/91	BOB281	1.2425	475.02	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	2.18E+10	2.03E+10	
SY-101	Cs137	12/1/91	BOB281	1.2425	468.72	uCi/g	L	PRIMARY RESULT	TCD	Cs137	2.15E+10	2.01E+10	
SY101	Cs137	5/1/91					L	Liquid	Wastren	Cs137	2.18E+10	2.00E+10	
SY-101	Cs137	12/1/91	BOB281	1.2425	456.95	uCi/g	L	PRIMARY RESULT	TCD	Cs137	2.10E+10	1.96E+10	
SY-101	Cs137	12/1/91	BOB281	1.2425	444	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	2.04E+10	1.90E+10	
SY-101	Cs137	12/1/91	BOB279	1.305	405.84	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.96E+10	1.83E+10	
SY103	Cs137	7/1/85					P	Supernatant	Wastren	Cs137	2.27E+10	1.82E+10	
AN104	Cs137	7/1/84					P	Supernatant	Wastren	Cs137	2.31E+10	1.81E+10	
AN104	Cs137	7/2/84	R9991	1.464	624000	uCi/L	P	SUPERNATANT	RAW	Cs137	2.31E+10	1.81E+10	
SY-101	Cs137	12/1/91	BOB909	1.305	525000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.94E+10	1.81E+10	
AN104	Cs137	1/18/85	R-3184	1.38	593000	uCi/L	L	ALIQUOT	RAW	Cs137	2.19E+10	1.75E+10	
AW101	Cs137	11/9/84	R-3214	1.03	593000	uCi/L	L		RAW	Cs137	2.19E+10	1.74E+10	
AW102	Cs137	1/18/85	R-3180	1.36	590000	uCi/L	U	UNKNOWN	RAW	Cs137	2.18E+10	1.74E+10	
SY-101	Cs137	12/1/91	BOB276	1.1875	420	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.85E+10	1.72E+10	
AW101	Cs137	7/2/86		1.5	563000	uCi/L	F	FILTRATE	RAW	Cs137	2.08E+10	1.71E+10	
AW101	Cs137	6/23/86	T-621	1.44	550000	uCi/L	U	UNKNOWN	RAW	Cs137	2.04E+10	1.67E+10	
AW102	Cs137	2/14/86	T-6304	1.43	550000	uCi/L	L	FEED	RAW	Cs137	2.04E+10	1.66E+10	
AW102	Cs137	2/10/86	T-5580	1.37	551000	uCi/L	L	FEED	RAW	Cs137	2.04E+10	1.66E+10	
AW102	Cs137	4/7/83	R5001	1.36	585000	uCi/L	L	LIQUID	RAW	Cs137	2.16E+10	1.65E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW102	Cs137	2/13/86	T-5582	1.45	540000	uCi/L	L	FEED	RAW	Cs137	2.00E+10	1.63E+10	
AW106	Cs137	1/18/85	T-6851	1.4	553000	uCi/L	U	Unknown	RAW	Cs137	2.05E+10	1.63E+10	
SY-101	Cs137	12/1/91	BOB909	1.305	474000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.75E+10	1.63E+10	
AW101	Cs137	6/1/90					P	Supernatant	Wastren	Cs137	1.81E+10	1.63E+10	
SY-101	Cs137	12/1/91	BOB279	1.305	359.1	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.73E+10	1.62E+10	
AW101	Cs137	6/30/86		1.54	530000	uCi/L	F	FILTRATE	RAW	Cs137	1.96E+10	1.61E+10	
SY-101	Cs137	12/1/91	BOB276	1.1875	393.75	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.73E+10	1.61E+10	
AW101	Cs137	6/26/86		1.49	515000	uCi/L	F	FILTRATE	RAW	Cs137	1.91E+10	1.57E+10	
SY-101	Cs137	12/1/91	BOB280	1.3275	342.82	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.68E+10	1.57E+10	
SY-101	Cs137	12/1/91	BOB280	1.3275	341.6	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.68E+10	1.56E+10	
AW102	Cs137	1/16/85	R-3485	1.47	528000	uCi/L	F	FILTRATE	RAW	Cs137	1.95E+10	1.55E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	451000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.67E+10	1.55E+10	
SY-101	Cs137	12/1/91	BOB950	1.2533	449000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.66E+10	1.55E+10	
AW102	Cs137	1/16/85	R-3487	1.47	522000	uCi/L	F	FILTRATE	RAW	Cs137	1.93E+10	1.54E+10	
AW102	Cs137	1/16/85	R-3486	1.47	519000	uCi/L	F	FILTRATE	RAW	Cs137	1.92E+10	1.53E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	445000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.65E+10	1.53E+10	
SY-101	Cs137	12/1/91	BOB280	1.3275	331.8	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.63E+10	1.52E+10	
SY-101	Cs137	12/1/91	BOB8S3	1.336	441000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.63E+10	1.52E+10	
AN106	Cs137	7/21/87	R2089	1.344	485000	uCi/L	P	SUPERNATE	RAW	Cs137	1.79E+10	1.51E+10	
AW102	Cs137	1/16/85	R-3482	1.44	512000	uCi/L	F	FILTRATE	RAW	Cs137	1.89E+10	1.51E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.302	437000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.62E+10	1.51E+10	
SY-101	Cs137	12/1/91	BOB950	1.2533	438000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.62E+10	1.51E+10	
AN104	Cs137	1/15/85	R-3306	1.35	511000	uCi/L	L	FEED	RAW	Cs137	1.89E+10	1.50E+10	
SY-101	Cs137	12/1/91	BOB950	1.2533	434000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.61E+10	1.50E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	434000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.61E+10	1.50E+10	
AW102	Cs137	1/18/85	R-3181	1.359	508000	uCi/L	L	LIQUID	RAW	Cs137	1.88E+10	1.49E+10	
SY-101	Cs137	12/1/91	BOB8S7	1.36	431000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.59E+10	1.49E+10	
SY-101	Cs137	12/1/91	BOB8S3	1.336	433000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.60E+10	1.49E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.302	427000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.58E+10	1.47E+10	
SY-101	Cs137	12/1/91	BOB280	1.3275	322.35	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.58E+10	1.47E+10	
SY-101	Cs137	12/1/91	BOB8S7	1.36	425000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.57E+10	1.46E+10	
AN104	Cs137	1/15/85	R-3412	1.35	494000	uCi/L	L	FEED	RAW	Cs137	1.83E+10	1.45E+10	
AN106	Cs137	7/21/87	R2090	1.32	465000	uCi/L	P	SUPERNATE	RAW	Cs137	1.72E+10	1.45E+10	
AN106	Cs-137	2/19/87	R-2090	1.32	465000	uCi/l	P	Supernate	Braun	Cs-137	1.72E+10	1.44E+10	
AN106	Cs137	7/21/87	R2089	1.344	458000	uCi/L	P	SUPERNATE	RAW	Cs137	1.69E+10	1.43E+10	
AW102	Cs137	2/11/86	T-5581	1.43	472000	uCi/L	L	FEED	RAW	Cs137	1.75E+10	1.42E+10	
SY-101	Cs137	12/1/91	BOB271	1.27	324	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.52E+10	1.42E+10	
AN106	Cs-137	2/19/87	R-2089	1.344	458000	uCi/l	P	Supernate	Braun	Cs-137	1.69E+10	1.41E+10	
AW102	Cs137	1/16/85	R-3483	1.43	476000	uCi/L	F	FILTRATE	RAW	Cs137	1.76E+10	1.40E+10	
SY-101	Cs137	12/1/91	BOB968	1.26	405000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.50E+10	1.40E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.2925	406000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.50E+10	1.40E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Cs137	12/1/91	BOB271	1.27	318.24	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.50E+10	1.39E+10	
SY-101	Cs137	12/1/91	BOB985	1.2667	398000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.47E+10	1.37E+10	
SY-101	Cs137	12/1/91	BOB930	1.2617	395000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.46E+10	1.36E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	395000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.46E+10	1.36E+10	
AN105	Cs137	11/9/94		1.434	360000	uCi/L	L	Aliquot	RAW	Cs137	1.33E+10	1.33E+10	
SY-101	Cs137	12/1/91	BOB930	1.2617	386000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.43E+10	1.33E+10	
AN107	Cs-137	3/6/85	RAT-AN107-1A		450000	uCi/l	P	Supernate	Braun	Cs-137	1.67E+10	1.33E+10	
AN107	Cs-137	2/28/85	R-3637	1.41	450000	uCi/l	P	Supernate	Braun	Cs-137	1.67E+10	1.33E+10	
AN104	Cs137	1/15/85	R-3304	1.34	450000	uCi/L	L	FEED	RAW	Cs137	1.67E+10	1.32E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	379000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.40E+10	1.31E+10	
SY-101	Cs137	12/1/91	BOB985	1.2667	379000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.40E+10	1.31E+10	
SY-101	Cs137	12/1/91	BOB985	1.2667	378000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.40E+10	1.30E+10	
SY-101	Cs137	12/1/91	BOBB62	1.1	338	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.38E+10	1.28E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	367000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.36E+10	1.26E+10	
AW101	Cs137	12/30/81	T-1049	1.329	455000	uCi/L	L	NO SOLIDS	RAW	Cs137	1.68E+10	1.25E+10	
AW103	Cs137	8/7/85	3936	1.39	420000	uCi/L	P	SUPERNATANT	RAW	Cs137	1.55E+10	1.25E+10	
SY-101	Cs137	12/1/91	BOB930	1.2617	364000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.35E+10	1.25E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	294.84	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.35E+10	1.25E+10	
AN102	Cs137	8/1/91					P	Supernate	Wastren	Cs137	1.35E+10	1.25E+10	
AW102	Cs137	3/4/85	R-4149	1.4	420000	uCi/L	L	LIQUID	RAW	Cs137	1.55E+10	1.24E+10	
SY-101	Cs137	12/1/91	BOB271	1.27	282.58	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.33E+10	1.24E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	361000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.34E+10	1.24E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	288	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.32E+10	1.23E+10	
AW102	Cs137	1/4/83		1.25	435000	uCi/L	L	LIQUID	RAW	Cs137	1.61E+10	1.22E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	286.4	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.31E+10	1.22E+10	
SY-101	Cs137	12/1/91	BOB930	1.2617	350000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.30E+10	1.21E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	283.5	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.30E+10	1.21E+10	
AW101	Cs137	12/30/81	T-1048	1.324	439000	uCi/L	L	NO SOLIDS	RAW	Cs137	1.62E+10	1.20E+10	
SY-101	Cs137	12/1/91	BOB271	1.27	271.22	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.27E+10	1.19E+10	
SY-101	Cs137	12/1/91	BOBB62	1.1	314	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.28E+10	1.19E+10	
AN104	Cs137	1/15/85	R-3414	1.28	400000	uCi/L	L	FEED	RAW	Cs137	1.48E+10	1.18E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.285	333000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.23E+10	1.15E+10	
SY-101	Cs137	12/1/91	BOBB62	1.1	303	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.23E+10	1.15E+10	
SY-101	Cs137	12/1/91	BOBB62	1.1	302	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.23E+10	1.14E+10	
AW101	Cs137	6/23/86		1.37	368000	uCi/L	F	FILTRATE	RAW	Cs137	1.36E+10	1.12E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.285	325000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.20E+10	1.12E+10	
SY-101	Cs137	12/1/91	BOBB62	1.1	296	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.20E+10	1.12E+10	
AN105	Cs137	5/10/84	R9839	1.39	382000	uCi/L	P	Supernatant	RAW	Cs137	1.41E+10	1.11E+10	
AW102	Cs137	3/20/82	T1549	1.435	404000	uCi/L	L	NO SOLIDS	RAW	Cs137	1.49E+10	1.11E+10	
AN107	Cs-137	2/28/85	R-3638	1.35	376000	uCi/l	L	Liquor	Braun	Cs-137	1.39E+10	1.11E+10	
SY-101	Cs137	12/1/91	BOB276	1.1875	267.3	uCi/g	L	PRIMARY RESULT	TCD	Cs137	1.17E+10	1.09E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	313000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.16E+10	1.08E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.2925	310000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.15E+10	1.07E+10	
AW101	Cs137	7/2/86	T-882	1.32	348000	uCi/L	U	UNKNOWN	RAW	Cs137	1.29E+10	1.06E+10	
SY-101	Cs137	12/1/91	BOB276	1.1875	259.2	uCi/g	L	DUPLICATE RESULT	TCD	Cs137	1.14E+10	1.06E+10	
AN105	Cs137	11/1/84					P	Supernatant	Wastren	Cs137	1.33E+10	1.05E+10	
AN105	Cs137	5/10/84	R9840	1.39	361000	uCi/L	P	Supernatant	RAW	Cs137	1.34E+10	1.05E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	306000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.13E+10	1.05E+10	
AN107	Cs-137	3/6/85	RAT-AN107-1B		355000	uCi/l	P	Supernate	Braun	Cs-137	1.31E+10	1.05E+10	
AN107	Cs137	3/3/85					P	Supernatant	Wastren	Cs137	1.31E+10	1.04E+10	
AW102	Cs137	3/22/82	T1562	1.422	377000	uCi/L	L		RAW	Cs137	1.39E+10	1.04E+10	
SY-101	Cs137	12/1/91	BOB909	1.305	302000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.12E+10	1.04E+10	
SY-101	Cs137	12/1/91	BOB909	1.305	301000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.11E+10	1.04E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.2925	293000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.08E+10	1.01E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	294000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.09E+10	1.01E+10	
AW102	Cs137	3/4/85	R-4682	1.34	340000	uCi/L	L	LIQUID	RAW	Cs137	1.26E+10	1.00E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.285	290000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.07E+10	1.00E+10	
SY-101	Cs137	12/1/91	BOB930	1.2617	291000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.08E+10	1.00E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.31	287000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.06E+10	9.89E+09	
AW102	Cs137	3/26/82	T1582	1.42	357000	uCi/L	L	NO SOLIDS	RAW	Cs137	1.32E+10	9.85E+09	
AW101	Cs137	6/26/86	T-686	1.31	319000	uCi/L	U	UNKNOWN	RAW	Cs137	1.18E+10	9.70E+09	
SY-101	Cs137	12/1/91	BOB8T5	1.31	281000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.04E+10	9.68E+09	
AP105	Cs137	3/1/93	BO8VX8	1.377	266	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	9.84E+09	9.44E+09	
AP105	Cs137	3/1/93	BO8VX8	1.377	266	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	9.84E+09	9.44E+09	
SY-101	Cs137	12/1/91	BOB9Z7	1.1736	273000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.01E+10	9.41E+09	
SY102	Cs-137	11/1/84	R-3317A	1.44	321000	uCi/l	P	Supernate	Braun	Cs-137	1.19E+10	9.40E+09	
AW102	Cs137	3/4/85	R-4679	1.34	313000	uCi/L	L	LIQUID	RAW	Cs137	1.16E+10	9.24E+09	
AN106	Cs137	3/1/91					P	Supernatant	Wastren	Cs137	9.99E+09	9.15E+09	
AP105	Cs137	3/1/93	BO8VX4	1.1	255	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	9.44E+09	9.04E+09	
AW103	Cs-137	8/1/84	2838		310000	uCi/l	P	Supernate	Braun	Cs-137	1.15E+10	9.03E+09	
AP105	Cs137	3/1/93	BO8VX4	1.1	254	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	9.40E+09	9.01E+09	
SY102	Cs-137	11/1/84	R-3318A	1.42	306000	uCi/l	P	Supernate	Braun	Cs-137	1.13E+10	8.96E+09	
AW102	Cs137	4/10/85	R-4686	1.31	298000	uCi/L	L	LIQUID	RAW	Cs137	1.10E+10	8.81E+09	
AW102	Cs137	3/4/85	R-4151	1.12	298000	uCi/L	O	OTHER	RAW	Cs137	1.10E+10	8.79E+09	
SY-101	Cs137	12/1/91	BOB9X3	1.2668	253000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	9.36E+09	8.72E+09	
SY-101	Cs137	12/1/91	BOB9X3	1.2668	253000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	9.36E+09	8.72E+09	
AP105	Cs137	3/1/93	BO8VX9	1.3335	236	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.73E+09	8.37E+09	
AP105	Cs137	3/1/93	BO8VX0	1.345	233	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.62E+09	8.26E+09	
AP105	Cs137	3/1/93	BO8VX9	1.3335	233	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.62E+09	8.26E+09	
AP105	Cs137	3/1/93	BO8VX1	1.34	233	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.62E+09	8.26E+09	
AP105	Cs137	3/1/93	BO8VX5	1.3375	232	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.58E+09	8.23E+09	
AP105	Cs137	3/1/93	BO8VX6	1.3375	232	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.58E+09	8.23E+09	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
ASA Value: 6.1E+10 Bq/L

Tank Waste Characterization Sample Information										Radionuclide Information		
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Decayed Bq/L
AP105	Cs137	3/1/93	B08VX1	1.34	232	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.58E+09	8.23E+09
AP105	Cs137	3/1/93	B08VX6	1.3375	232	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.58E+09	8.23E+09
AN106	Cs-137	2/19/87	R-2456	1.223	266000	uCi/L	P	Supernate	Braun	Cs-137	9.84E+09	8.21E+09
AP105	Cs137	3/1/93	B08VX5	1.3375	231	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.55E+09	8.19E+09
AP105	Cs137	3/1/93	B08VX0	1.345	231	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.55E+09	8.19E+09
AP105	Cs137	3/1/93	B083D2	1.329	229	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.47E+09	8.12E+09
AN106	Cs137	7/21/87	R2456	1.233	259000	uCi/L	P	SUPERNATE	RAW	Cs137	9.58E+09	8.07E+09
AP105	Cs137	3/10/93		1.336	227	uCi/mL	P	composite	RAW	Cs137	8.40E+09	8.06E+09
SY-101	Cs137	12/1/91	B089D7	1.285	234000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	8.66E+09	8.06E+09
AN106	Cs137	7/21/87	R2456	1.233	258000	uCi/L	P	SUPERNATE	RAW	Cs137	9.55E+09	8.04E+09
SY-101	Cs137	12/1/91	B089X3	1.2668	233000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	8.62E+09	8.03E+09
SY-101	Cs137	12/1/91	B08950	1.2533	233000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	8.62E+09	8.03E+09
AP105	Cs137	3/1/93	B083D1	1.334	226	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.36E+09	8.02E+09
AP102	Cs137	4/1/93	B082N4	1.21	225	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.33E+09	8.00E+09
AP102	Cs137	4/1/93	B082N4	1.21	224	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.29E+09	7.96E+09
AP105	Cs137	3/1/93	B083D1	1.334	224	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.29E+09	7.95E+09
AP105	Cs137	3/1/93	B083C8	1.327	223	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.25E+09	7.91E+09
AP102	Cs137	4/1/93	B082M9	1.195	222	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.21E+09	7.89E+09
AP105	Cs137	3/1/93	B083D2	1.329	222	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.21E+09	7.87E+09
SY-101	Cs137	12/1/91	B089D7	1.285	228000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	8.44E+09	7.86E+09
AP105	Cs137	3/1/93	B083C8	1.327	221	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.18E+09	7.84E+09
AP102	Cs137	4/1/93	B082M9	1.195	220	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	8.14E+09	7.82E+09
AP102	Cs137	4/1/93	B082T9	1.19	217	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	8.03E+09	7.71E+09
AP102	Cs137	4/1/93	B082T9	1.19	215	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.96E+09	7.64E+09
AP102	Cs137	4/1/93	B082N1	1.195	215	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.96E+09	7.64E+09
SY-101	Cs137	12/1/91	B08930	1.2617	221000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	8.18E+09	7.62E+09
AP102	Cs137	4/1/93	B082N1	1.195	210	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	7.77E+09	7.46E+09
AW101	Cs137	7/6/86	T-959	1.23	245000	uCi/L	U	UNKNOWN	RAW	Cs137	9.07E+09	7.46E+09
AW102	Cs137	1/18/85	R-3209	1.37	253000	uCi/L	U	UNKNOWN	RAW	Cs137	9.36E+09	7.45E+09
SY-101	Cs137	12/1/91	B089D7	1.285	216000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	7.99E+09	7.44E+09
SY102	Cs-137	11/1/84	R-3316A	1.41	254000	uCi/L	P	Supernate	Braun	Cs-137	9.40E+09	7.44E+09
AW102	Cs137	1/16/85	R-3457	1.25	249000	uCi/L	L	FEED	RAW	Cs137	9.21E+09	7.33E+09
SY-101	Cs137	12/1/91	B08930	1.2617	210000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	7.77E+09	7.24E+09
SY-101	Cs137	12/1/91	B089X3	1.2668	206000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	7.62E+09	7.10E+09
AN101	Cs137	7/4/88	T-672	1.256	220000	uCi/L	O	OTHER	RAW	Cs137	8.14E+09	7.01E+09
AN101	Cs137	7/1/88					P	Supernate	Wastren	Cs137	8.14E+09	7.01E+09
AP105	Cs137	3/1/93	B08VX3	1.3	196	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	7.25E+09	6.95E+09
AP105	Cs137	3/1/93	B08VX2	1.2975	196	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.25E+09	6.95E+09
AP105	Cs137	3/1/93	B083C9	1.3	195	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	7.22E+09	6.92E+09
AP105	Cs137	3/1/93	B08VX2	1.2975	194	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	7.18E+09	6.88E+09
AP105	Cs137	3/1/93	B08VX7	1.298	194	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	7.18E+09	6.88E+09

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP105	Cs137	3/1/93	B08VX7	1.298	194	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.18E+09	6.88E+09	
AP105	Cs137	3/1/93	B08VX3	1.3	194	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.18E+09	6.88E+09	
AW102	Cs137	12/7/82	3256	1.264	244000	uCi/L	F	FILTRATE	RAW	Cs137	9.03E+09	6.84E+09	
AW102	Cs137	11/4/82		1.264	244000	uCi/L	F	FILTRATE	RAW	Cs137	9.03E+09	6.82E+09	
AP105	Cs137	3/1/93	B0B3C9	1.3	192	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	7.10E+09	6.81E+09	
SY-103	Cs137						L		TRAC	Cs137		6.49E+09	
SY-101	Cs137	12/1/91	B0BB23	1.144	184000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	6.81E+09	6.34E+09	
SY-101	Cs137	12/1/91	B0BB23	1.144	183000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	6.77E+09	6.31E+09	
AW106	Cs-137	8/7/88	T-1621	1.241	192000	uCi/l	P	Supernate	Braun	Cs-137	7.10E+09	6.13E+09	
AW106	Cs137	8/1/88					P	Supernatant	Wastren	Cs137	7.10E+09	6.13E+09	
AW103	Cs-137	3/20/83	RAT-AW103-4	1.281	215000	uCi/l	F	Filtrate	Braun	Cs-137	7.96E+09	6.07E+09	
SY-101	Cs137	12/1/91	B0B8W7	1.2925	174000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	6.44E+09	6.00E+09	
SY-101	Cs137	12/1/91	B0B8W7	1.2925	172000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	6.36E+09	5.93E+09	
SY-101	Cs137	12/1/91	B0BB23	1.144	158000	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	5.85E+09	5.45E+09	
SY-101	Cs137	12/1/91	B0BB23	1.144	154000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.70E+09	5.31E+09	
AN101	Cs137	12/19/90	R-8520	1.15	138000	uCi/L	O	OTHER	RAW	Cs137	5.11E+09	4.65E+09	
AW102	Cs137	4/1/83		1.18	148000	uCi/L	L	LIQUID	RAW	Cs137	5.48E+09	4.18E+09	
AW102	Cs-137	4/1/83	4289	1.18	148000	uCi/l	P	Supernate	Braun	Cs-137	5.48E+09	4.18E+09	
AW101	Cs137	6/30/86	T-812	1.13	134000	uCi/L	U	UNKNOWN	RAW	Cs137	4.96E+09	4.08E+09	
AW101	Cs137	1/13/86	R-7694	1.18	125000	uCi/L	U	UNKNOWN	RAW	Cs137	4.63E+09	3.76E+09	
AN106	Cs137	7/21/87	R2086	1.142	116000	uCi/L	P	SUPERNATE	RAW	Cs137	4.29E+09	3.62E+09	
AN106	Cs-137	2/19/87	R-2088	1.142	116000	uCi/l	P	Supernate	Braun	Cs-137	4.29E+09	3.58E+09	
SY-102	Cs137						L		TRAC	Cs137		3.46E+09	
SY-101	Cs137	12/1/91	B0BB41	1.072	75800	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	2.80E+09	2.61E+09	
SY-101	Cs137	12/1/91	B0BB41	1.072	75800	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.80E+09	2.61E+09	
AW103	Cs-137	8/1/84	2836		88800	uCi/l	P	Supernate	Braun	Cs-137	3.29E+09	2.59E+09	
AW102	Cs137	8/4/88	T-1521A	1.16	79200	uCi/L	P	SUPERNATANT	RAW	Cs137	2.93E+09	2.53E+09	
AW102	Cs137	8/1/88					P	Supernatant	Wastren	Cs137	2.93E+09	2.53E+09	
AW102	Cs137	11/28/83	8556	1.124	88000	uCi/L	L	LIQUID	RAW	Cs137	3.26E+09	2.52E+09	
AW102	Cs137	6/4/88		1.1602	79200	uCi/L	O	OTHER	RAW	Cs137	2.93E+09	2.52E+09	
AW102	Cs-137	4/20/88	T-1521	1.16	79199.9	uCi/l	P	Supernate	Braun	Cs-137	2.93E+09	2.51E+09	
AW103	Cs137	3/20/83		1.265	86000	uCi/L	L	LIQUID	RAW	Cs137	3.18E+09	2.43E+09	
AN101	Cs-137	3/27/85	R-3963	1.02	78500	uCi/l	P	Supernate	Braun	Cs-137	2.90E+09	2.32E+09	
AW102	Cs137	7/30/85	R-5898	1.14	73000	uCi/L	L	LIQUID	RAW	Cs137	2.70E+09	2.17E+09	
AW103	Cs137	8/7/85		1.33	69600	uCi/L	P	SUPERNATANT	RAW	Cs137	2.58E+09	2.07E+09	
AW101	Cs137	11/20/94	R-2644		54400	uCi/L	P	SUPERNATANT	RAW	Cs137	2.01E+09	2.01E+09	
AW106	Cs137	12/1/93	B08VS6	1.0867	50600	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.87E+09	1.83E+09	
AW106	Cs137	12/1/93	B08VS6	1.0867	50700	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.88E+09	1.83E+09	
SY101	Cs-137	6/11/80	T-1227	1.1057	68400	uCi/l	P	Supernate	Braun	Cs-137	2.53E+09	1.81E+09	
SY-101	Cs137						L		TRAC	Cs137		1.75E+09	
AW105	Cs-137	5/1/86	AT-AW105-2	1.079	45.9	uCi/gm	P	Supernate	Braun	Cs-137	1.83E+09	1.50E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Cs137	12/1/91	BOBBB5	1.0625	41900	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.55E+09	1.44E+09	
SY-101	Cs137	12/1/91	BOBBB5	1.0625	41500	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	1.54E+09	1.43E+09	
AW103	Cs137	10/1/88	R-4251		37800	uCi/L	P	SUPERNATANT	RAW	Cs137	1.40E+09	1.21E+09	
AW103	Cs137	10/1/88	R-3761		35700	uCi/L	P	SUPERNATANT	RAW	Cs137	1.32E+09	1.14E+09	
AW103	Cs137	10/1/88	R-3762		33700	uCi/L	P	SUPERNATANT	RAW	Cs137	1.25E+09	1.08E+09	
AW103	Cs-137	2/27/87	7931		34700	uCi/L	P	Supernate	Braun	Cs-137	1.28E+09	1.07E+09	
AW103	Cs-137	12/11/88	R-4346A		32200	uCi/L	P	Supernate	Braun	Cs-137	1.19E+09	1.04E+09	
AW101	Cs137	11/20/94	R-2645		27600	uCi/L	O	OTHER	RAW	Cs137	1.02E+09	1.02E+09	
AW103	Cs137	6/17/85			34.3	mCi/L	P	SUPERNATANT	RAW	Cs137	1.27E+09	1.02E+09	
AW103	Cs-137	6/15/85	RAT-AW103-2B		34300	uCi/L	P	Supernate	Braun	Cs-137	1.27E+09	1.02E+09	
AW103	Cs-137	6/1/84	202107A		34000	uCi/L	P	Supernate	Braun	Cs-137	1.26E+09	9.86E+08	
AW103	Cs137	6/1/84			34	mCi/L	P	SUPERNATANT	RAW	Cs137	1.26E+09	9.86E+08	
AW105	Cs-137	1/1/85	R-4036	0.974	33400	uCi/L	L	Liquor	Braun	Cs-137	1.24E+09	9.82E+08	
AW105	Cs-137	1/1/85	R-4037	0.974	33400	uCi/L	L	Liquor	Braun	Cs-137	1.24E+09	9.82E+08	
AW103	Cs137	6/15/83			34.3	mCi/L	P	SUPERNATANT	RAW	Cs137	1.27E+09	9.73E+08	
AW102	Cs-137	4/20/88	T-8435	1.04	29900	uCi/L	P	Supernate	Braun	Cs-137	1.11E+09	9.48E+08	
AW102	Cs137	4/20/88	T8435	1.0371	29900	uCi/L	O	OTHER	RAW	Cs137	1.11E+09	9.48E+08	
AW103	Cs137	4/20/88	T-8435	1.0371	29900	uCi/L	O	OTHER	RAW	Cs137	1.11E+09	9.48E+08	
AW103	Cs137	6/24/88	T-8200	1.04	26600	uCi/L	P	SUPERNATANT	RAW	Cs137	9.84E+08	8.47E+08	
AW103	Cs-137	4/9/88	T-8200	1.04	26600	uCi/L	P	Supernate	Braun	Cs-137	9.84E+08	8.43E+08	
AW103	Cs137	4/10/88	T-8200	1.04	26600	uCi/L	L	NO SOLIDS	RAW	Cs137	9.84E+08	8.43E+08	
AN106	Cs-137	2/19/87	R-2087	1.087	26200	uCi/L	P	Supernate	Braun	Cs-137	9.69E+08	8.09E+08	
AW103	Cs137	1/29/90	R-6298		22800	uCi/L	L	NO SOLIDS	RAW	Cs137	8.44E+08	7.53E+08	
SY-101	Cs137	12/1/91	BOB985	1.2667	21400	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	7.92E+08	7.38E+08	
SY-101	Cs137	12/1/91	BOB985	1.2667	21300	uCi/L	L	PRIMARY RESULT	TCD	Cs137	7.88E+08	7.34E+08	
AN106	Cs137	2/27/87	R-2456	1.02	23500	uCi/L	L	NO SOLIDS	RAW	Cs137	8.70E+08	7.26E+08	
AW103	Cs-137	12/11/88	R-4345		21100	uCi/L	P	Supernate	Braun	Cs-137	7.81E+08	6.79E+08	
AW103	Cs137	12/11/88	R-4345		21100	uCi/L	L	NO SOLIDS	RAW	Cs137	7.81E+08	6.79E+08	
AW103	Cs137	12/11/88	R-4345		21100	uCi/L	P	SUPERNATANT	RAW	Cs137	7.81E+08	6.79E+08	
AW103	Cs137	12/11/88	R-4347		20500	uCi/L	P	SUPERNATANT	RAW	Cs137	7.59E+08	6.60E+08	
AW103	Cs-137	12/11/88	R-4347		20500	uCi/L	P	Supernate	Braun	Cs-137	7.59E+08	6.60E+08	
AW101	Cs137	11/9/84	R-3185	1.024	21800	uCi/L	L		RAW	Cs137	8.07E+08	6.39E+08	
AW101	Cs137	11/9/84		1.024	21800	uCi/L	P	SUPERNATANT	RAW	Cs137	8.07E+08	6.39E+08	
AW101	Cs-137	11/9/84	R-3185	1.024	21800	uCi/L	P	Supernate	Braun	Cs-137	8.07E+08	6.39E+08	
AW103	Cs137	10/1/88	R-3760		18800	uCi/L	P	SUPERNATANT	RAW	Cs137	6.96E+08	6.02E+08	
AW102	Cs137	12/1/93	BOBC12	1.026	16100	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.96E+08	5.81E+08	
AW102	Cs137	11/18/92	R9417		16100	uCi/L	U	UNKNOWN	RAW	Cs137	5.96E+08	5.67E+08	
AW102	Cs137	11/18/92	R9418		16100	uCi/L	U	UNKNOWN	RAW	Cs137	5.96E+08	5.67E+08	
AW102	Cs137	12/1/93	BOBC12	1.026	15100	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.59E+08	5.45E+08	
AW102	Cs137	12/1/93	BOBC12	1.026	15000	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.55E+08	5.41E+08	
AW102	Cs137	12/1/93	BOBC12	1.026	14900	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	5.51E+08	5.38E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW102	Cs137	11/18/92	R9416		15000	uCi/L	U	UNKNOWN	RAW	Cs137	5.55E+08	5.29E+08	
AW102	Cs137	12/1/93	BOBC12	1.026	14600	uCi/L	L	PRIMARY RESULT	TCD	Cs137	5.40E+08	5.27E+08	
AW102	Cs137	11/18/92	R9415		14600	uCi/L	U	UNKNOWN	RAW	Cs137	5.40E+08	5.15E+08	
AW101	Cs137	4/21/85	T5351	1.0411	15200	uCi/L	O	OTHER	RAW	Cs137	5.62E+08	4.50E+08	
SY-101	Cs137	12/1/91	BOB8T1	1.1	10700	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	3.96E+08	3.69E+08	
AW103	Cs137	8/7/85	4013	1.13	11500	uCi/L	P	SUPERNATANT	RAW	Cs137	4.26E+08	3.43E+08	
AW-106	Cs137						L		TRAC	Cs137		3.40E+08	
SY-101	Cs137	12/1/91	BOB8T1	1.1	9820	uCi/L	L	PRIMARY RESULT	TCD	Cs137	3.63E+08	3.38E+08	
AP106	Cs137	3/1/93	BOB2C0	0.9995	9.37	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	3.47E+08	3.32E+08	
AP106	Cs137	3/1/93	BOB2C0	0.9995	9.32	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	3.45E+08	3.31E+08	
AP106	Cs137	3/1/93	BOB2C0	0.9995	9.28	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.43E+08	3.29E+08	
AP106	Cs137	3/1/93	BOB2C0	0.9995	9.24	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.42E+08	3.28E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	8500	uCi/L	L	PRIMARY RESULT	TCD	Cs137	3.15E+08	2.92E+08	
AW101	Cs137	4/21/85	T5350	1.0279	9640	uCi/L	L	NO SOLIDS	RAW	Cs137	3.57E+08	2.85E+08	
AW105	Cs-137	8/17/88	T-805	1.01	8280	uCi/l	L	Liquor	Braun	Cs-137	3.06E+08	2.65E+08	
AW105	Cs137	7/1/88					P	Supernatant	Wastren	Cs137	3.06E+08	2.63E+08	
AW102	Cs137	9/22/83	R7812	1.021	9020	uCi/L	L	LIQUID	RAW	Cs137	3.34E+08	2.57E+08	
AW102	Cs137	9/22/83	R7811	1.015	8890	uCi/L	L	LIQUID	RAW	Cs137	3.29E+08	2.54E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	7200	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.66E+08	2.48E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	7070	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.62E+08	2.43E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	7020	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.60E+08	2.41E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6930	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.56E+08	2.38E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6880	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	2.55E+08	2.37E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6590	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.44E+08	2.27E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6420	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	2.38E+08	2.21E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6410	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.37E+08	2.21E+08	
AP106	Cs137	3/1/93	BOB2G2	0.9965	6.01	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.22E+08	2.13E+08	
AP106	Cs137	3/1/93	BOB2G2	0.9965	5.96	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	2.21E+08	2.11E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	6030	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.23E+08	2.07E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	5990	uCi/L	L	DUPLICATE RESULT	TCD	Cs137	2.22E+08	2.06E+08	
AP103	Cs137	11/1/91	BOBC21	1.0027	5800	uCi/L	L	PRIMARY RESULT	TCD	Cs137	2.15E+08	2.00E+08	
AN101	Cs137	7/4/88	T-671	0.966	6160	uCi/L	P	SUPERNATE	RAW	Cs137	2.28E+08	1.96E+08	
SY102	Cs-137	10/5/84	R-3038	1.06	6550	uCi/l	P	Supernate	Braun	Cs-137	2.42E+08	1.91E+08	
AP106	Cs137	3/16/93		0.996	5.36	uCi/mL	P	composite	RAW	Cs137	1.98E+08	1.90E+08	
AW105	Cs-137	4/5/88	T-7966	1.008	5750	uCi/l	P	Supernate	Braun	Cs-137	2.13E+08	1.82E+08	
AW103	Cs137	4/5/88	T-7966	1.0081	5750	uCi/L	L	NO SOLIDS	RAW	Cs137	2.13E+08	1.82E+08	
AP106	Cs137	3/1/93	BOB2B9	0.9975	4.82	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.78E+08	1.71E+08	
SY102	Cs137	6/1/89					P	Supernatant	Wastren	Cs137	1.91E+08	1.68E+08	
AP106	Cs137	3/1/93	BOB2C3	0.9925	4.7	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.74E+08	1.67E+08	
AP106	Cs137	3/1/93	BOB2C5	0.994	4.7	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.74E+08	1.67E+08	
AP106	Cs137	3/1/93	BOB2C3	0.9925	4.69	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.74E+08	1.66E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW101	Cs137	3/30/86	T-7698	0.993	5480	uCi/L	L		RAW	Cs137	2.03E+08	1.66E+08	
AP106	Cs137	3/1/93	B0B2C2	0.997	4.64	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.72E+08	1.65E+08	
AP106	Cs137	3/1/93	B0B2B9	0.9975	4.65	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.72E+08	1.65E+08	
AW101	Cs137	3/30/86	T-7697	0.997	5470	uCi/L	L		RAW	Cs137	2.02E+08	1.65E+08	
AP106	Cs137	3/1/93	B0B2C2	0.997	4.63	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.71E+08	1.64E+08	
AP106	Cs137	3/1/93	B0B2C5	0.994	4.58	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.69E+08	1.62E+08	
SY102	Cs-137	10/5/84	R-3037	1.03	5350	uCi/l	P	Supernate	Braun	Cs-137	1.98E+08	1.56E+08	
AP106	Cs137	3/1/93	B0B2C1	0.996	4.36	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.61E+08	1.55E+08	
AP106	Cs137	3/1/93	B0B2C1	0.996	4.35	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.61E+08	1.54E+08	
AP106	Cs137	3/1/93	B0B2B8	0.9965	4.3	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.59E+08	1.53E+08	
AP106	Cs137	3/1/93	B0B2B8	0.9965	4.28	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.58E+08	1.52E+08	
AP103	Cs137	11/1/91	B0BC21	1.0027	4230	uCi/L	L	PRIMARY RESULT	TCD	Cs137	1.57E+08	1.46E+08	
AW101	Cs137	11/14/85	T-2641	1.01	4470	uCi/L	L	LIQUID	RAW	Cs137	1.65E+08	1.34E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
AW102	Cs137	11/28/83	8555	1.0219	2820	uCi/L	L	LIQUID	RAW	Cs137	1.04E+08	8.08E+07	
SY102	Cs-137	6/1/88	RAT-SY102-1		2420	uCi/l	P	Supernate	Braun	Cs-137	8.95E+07	7.70E+07	
AN106	Cs-137	11/28/83	8500		1340	uCi/l	P	Supernate	Braun	Cs-137	4.96E+07	3.84E+07	
AN106	Cs-137	11/28/83	8501		1013	uCi/l	P	Supernate	Braun	Cs-137	3.75E+07	2.90E+07	
AN104	Cs137	11/9/84	R-3206	1.41	603	uCi/L	L	ALIUQOT	RAW	Cs137	2.23E+07	1.77E+07	
AW104	Cs137	11/9/84	R-3206	1.41	603	uCi/L	O	LIQUID	RAW	Cs137	2.23E+07	1.77E+07	
AW101	Cs137	7/21/87			548000	nCi/L	P	SUPERNATANT	RAW	Cs137	2.03E+07	1.71E+07	
AP103	Cs137	4/1/88					P	Supernatant	Wastren	Cs137	2.23E+05	1.91E+05	
AP103	Cs-137	4/6/88	RAT-AP103-1		6.02	uCi/l	P	Supernate	Braun	Cs-137	2.23E+05	1.91E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.0033	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.22E+05	1.18E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.0033	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.22E+05	1.18E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.0033	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.22E+05	1.18E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.0033	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.22E+05	1.18E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.0033	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	1.22E+05	1.18E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.00323	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.20E+05	1.15E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.00323	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.20E+05	1.15E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.00323	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.20E+05	1.15E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.00323	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.20E+05	1.15E+05	
AP101	Cs137	7/1/93	B0B2K7	1.1	0.00323	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	1.20E+05	1.15E+05	
AW101	Cs137	11/9/84	R-3215	1.04	0.753	uCi/L	L		RAW	Cs137	2.78E+04	2.20E+04	
AN101	Cs137	2/7/85	T-2832	0.976	0.709	uCi/L	L	NO SOLIDS	RAW	Cs137	2.62E+04	2.09E+04	
AP104	Cs137	7/10/87			0.628	uCi/L	O	OTHER	RAW	Cs137	2.32E+04	1.96E+04	
AP104	Cs137	8/5/87	T-513		0.628	uCi/L	O	OTHER	RAW	Cs137	2.32E+04	1.96E+04	
AP104	Cs-137	7/10/87	T-513		0.628	uCi/l	P	Supernate	Braun	Cs-137	2.32E+04	1.96E+04	
AP104	Cs137	6/1/88					P	Supernatant	Wastren	Cs137	2.15E+04	1.85E+04	
AP104	Cs137	3/1/88	WI-549	1.02	0.582	uCi/L	L	LIQUID	RAW	Cs137	2.15E+04	1.84E+04	
AP103	Cs-137	2/8/88	RAT-AP103-4		0.577	uCi/l	P	Supernate	Braun	Cs-137	2.13E+04	1.82E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Liquids [Sketch ES-VAL-CR29]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP104	Cs137	5/12/87	T-8530		0.579	uCi/L	L	NO SOLIDS	RAW	Cs137	2.14E+04	1.80E+04	
AP104	Cs-137	4/22/87	T-8530		0.579	uCi/l	P	Supernate	Braun	Cs-137	2.14E+04	1.79E+04	
AP103	Cs-137	2/8/88	RAT-AP103-2		0.565	uCi/l	P	Supernate	Braun	Cs-137	2.09E+04	1.78E+04	
AP102	Cs137	5/1/88					P	Supernatant	Wastren	Cs137	1.81E+04	1.55E+04	
AP102	Cs137	5/18/88	R-8472		0.489	uCi/L	P	SUPERNATANT	RAW	Cs137	1.81E+04	1.55E+04	
AP102	Cs137	5/18/88	R-8473		0.483	uCi/L	P	SUPERNATANT	RAW	Cs137	1.79E+04	1.53E+04	
AP104	Cs137	3/1/88	WI-550	1.05	0.473	uCi/L	L	LIQUID	RAW	Cs137	1.75E+04	1.50E+04	
AP104	Cs-137	3/1/88	RAT-AP104-1B	1.01	0.47	uCi/l	P	Supernate	Braun	Cs-137	1.74E+04	1.49E+04	
AP104	Cs-137	3/1/88	RAT-AP104-1A	1.03	0.47	uCi/l	P	Supernate	Braun	Cs-137	1.74E+04	1.49E+04	
AP102	Cs137	5/18/88	R-8469		0.465	uCi/L	P	SUPERNATANT	RAW	Cs137	1.72E+04	1.48E+04	
AP102	Cs137	5/18/88	R-8471		0.443	uCi/L	P	SUPERNATANT	RAW	Cs137	1.64E+04	1.41E+04	
AP103	Cs-137	1/30/88	RAT-AP103-3	0.9781	0.217	uCi/l	P	Supernate	Braun	Cs-137	8.03E+03	6.85E+03	
AP107	Cs137	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	4.55E+03	4.41E+03	
AP107	Cs137	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	4.55E+03	4.41E+03	
AP107	Cs137	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	4.55E+03	4.41E+03	
AP107	Cs137	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	4.55E+03	4.41E+03	
AP107	Cs137	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	4.55E+03	4.41E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	8.4E-05	uCi/mL	L	PRIMARY RESULT	TCD	Cs137	3.09E+03	2.99E+03	
AP107	Cs137	8/1/93	B08W54	1.1	7.3E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.68E+03	2.60E+03	
AP107	Cs137	8/1/93	B08W54	1.1	7.3E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.68E+03	2.60E+03	
AP107	Cs137	8/1/93	B08W54	1.1	7.3E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.68E+03	2.60E+03	
AP107	Cs137	8/1/93	B08W54	1.1	7.3E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.68E+03	2.60E+03	
AP107	Cs137	8/1/93	B08W54	1.1	7.3E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.68E+03	2.60E+03	
AP107	Cs137	8/1/93	B08W54	1.1	6.2E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.28E+03	2.20E+03	
AP107	Cs137	8/1/93	B08W54	1.1	6.2E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.28E+03	2.20E+03	
AP107	Cs137	8/1/93	B08W54	1.1	6.2E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.28E+03	2.20E+03	
AP107	Cs137	8/1/93	B08W54	1.1	6.2E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.28E+03	2.20E+03	
AP107	Cs137	8/1/93	B08W54	1.1	6.2E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Cs137	2.28E+03	2.20E+03	
AW103	Cs137	1/23/86			0.015	uCi/L	L	WATER	RAW	Cs137	5.55E+02	4.52E+02	
AW-103	Cs137						L		TRAC	Cs137		6.03E-01	
AW103	Cs137	1/1/89			2740	uCi/L	L		RAW	Cs137	1.01E+08	1.18E-26	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY103	Cs137	7/2/85	R-5256	1.47	4.27E+06	uCi/L	R	Slurry	RAW	Cs137	1.58E+11	1.27E+11	6
ASA Value: 6.1E+10 Bq/L													
SY103	Cs137	7/1/85					R	Slurry	Wastren	Cs137	7.47E+10	6.00E+10	*16
SY-101	Cs137	12/1/91	BOBBB5	1.6	1.03E+03	uCi/g	S	PRIMARY RESULT	TCD	Cs137	6.10E+10	5.68E+10	
AN104	Cs137	1/15/85	R-3305	1.54	1.89E+06	uCi/L	R	SLURRY	RAW	Cs137	6.99E+10	5.56E+10	
SY-101	Cs137	12/1/91	BOBBB5	1.6	8.79E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	5.20E+10	4.85E+10	
SY-101	Cs137	12/1/91	BOBBF8	1.6	6.72E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.98E+10	3.71E+10	
SY-101	Cs137	12/1/91	BOBBF8	1.6	6.68E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.95E+10	3.68E+10	
SY103	Cs137	7/2/85	R-5257	1.4	1.19E+06	uCi/L	R	Slurry	RAW	Cs137	4.40E+10	3.54E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	6.10E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	3.61E+10	3.36E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	6.08E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.60E+10	3.35E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	5.31E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.14E+10	2.93E+10	
AW102	Cs137	2/10/86	R-8117		9.25E+05	uCi/L	R	SLURRY	RAW	Cs137	3.42E+10	2.79E+10	
SY-101	Cs137	12/1/91	BOBBQ7	1.6	5.01E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.97E+10	2.76E+10	
SY-101	Cs137	12/1/91	BOBBQ4	1.6	4.92E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.91E+10	2.71E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	4.78E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.83E+10	2.64E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	5.00E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.83E+10	2.64E+10	
SY-101	Cs137	12/1/91	BOBBR2	1.6	4.77E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.82E+10	2.63E+10	
AN104	Cs137	1/15/85	R-3413	1.45	8.89E+05	uCi/L	R	SLURRY	RAW	Cs137	3.29E+10	2.62E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	4.95E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.80E+10	2.61E+10	
SY-101	Cs137	12/1/91	BOBBF3	1.6	4.72E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.79E+10	2.60E+10	
SY-101	Cs137	12/1/91	BOBBR6	1.6	4.69E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.78E+10	2.59E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	4.70E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.78E+10	2.59E+10	
AW102	Cs137	2/11/86	R-8118	1.79	8.50E+05	uCi/L	R	SLURRY	RAW	Cs137	3.15E+10	2.56E+10	
AN102	Cs137	8/1/91					G	Sludge	Wastren	Cs137	2.75E+10	2.54E+10	
SY101	Cs137	4/28/77		1.389	1.03E+00	Ci/L	R	Slurry	RAW	Cs137	3.81E+10	2.54E+10	
SY101	Cs137	4/28/77		1.389	1.03E+00	Ci/L	R	Slurry	RAW	Cs137	3.81E+10	2.54E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	4.62E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.68E+10	2.50E+10	
AN103	Cs137	2/1/90					R	Slurry	Wastren	Cs137	2.78E+10	2.48E+10	
SY-101	Cs137	12/1/91	BOB950	1.51	4.74E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.65E+10	2.47E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	4.46E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.64E+10	2.46E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	4.43E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.62E+10	2.44E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	4.43E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.62E+10	2.44E+10	
SY103	Cs-137	7/2/85	R-5257	1.5	8.13E+05	uCi/l	R	Slurry/Solids	Braun	Cs-137	3.01E+10	2.42E+10	
SY-101	Cs137	12/1/91	BOB968	1.58	4.43E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.59E+10	2.41E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	4.52E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.59E+10	2.41E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	4.50E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.58E+10	2.40E+10	
SY-101	Cs137	12/1/91	BOB968	1.58	4.39E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.57E+10	2.39E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	4.26E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.56E+10	2.39E+10	
SY-101	Cs137	12/1/91	BOBBR2	1.6	4.34E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.57E+10	2.39E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	4.31E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.55E+10	2.38E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	4.31E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.55E+10	2.38E+10	
AN103	Cs137	9/25/87	TK092587	1.56	7.55E-01	Ci/L	G	Sludge	RAW	Cs137	2.79E+10	2.36E+10	
SY-101	Cs137	12/1/91	BOB950	1.51	4.52E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.53E+10	2.35E+10	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
					Value	Unit							
SY-101	Cs137	12/1/91	BOB950	1.51	4.52E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.53E+10	2.35E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	4.27E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.53E+10	2.35E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	4.20E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.49E+10	2.32E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	4.49E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.49E+10	2.32E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	4.06E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.49E+10	2.32E+10	
AW102	Cs137	2/14/86	R-8120	1.54	7.65E+05	uCi/L	R	SLURRY	RAW	Cs137	2.83E+10	2.31E+10	
SY-101	Cs137	12/1/91	BOB950	1.51	4.44E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.48E+10	2.31E+10	
AN104	Cs137	1/15/85	R-3307	1.46	7.83E+05	uCi/L	R	SLURRY	RAW	Cs137	2.90E+10	2.30E+10	
SY-101	Cs137	12/1/91	BOBBR6	1.6	4.17E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.47E+10	2.30E+10	
SY103	Cs137	9/1/86	2	1.52	7.52E+05	uCi/L	S	Core Segment	RAW	Cs137	2.78E+10	2.30E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	4.29E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.46E+10	2.29E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	4.42E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.45E+10	2.29E+10	
SY-101	Cs137	12/1/91	BOB968	1.58	4.17E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.44E+10	2.27E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	4.40E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.44E+10	2.27E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	4.23E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.43E+10	2.26E+10	
SY103	Cs137	9/1/86	7	1.54	7.36E+05	uCi/L	S	Core Segment	RAW	Cs137	2.72E+10	2.25E+10	
SY-101	Cs137	12/1/91	BOB9K2	1.67	3.89E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.40E+10	2.24E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	4.12E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.39E+10	2.23E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	4.11E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.39E+10	2.22E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	4.13E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.37E+10	2.21E+10	
SY-101	Cs137	12/1/91	BOB985	1.44	4.45E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.37E+10	2.21E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	3.86E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.37E+10	2.21E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.97E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.35E+10	2.19E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.91E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.35E+10	2.19E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.95E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.34E+10	2.18E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.91E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.34E+10	2.18E+10	
SY-101	Cs137	12/1/91	BOB9L9	1.6492	3.83E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.34E+10	2.18E+10	
SY-101	Cs137	12/1/91	BOB9H1	1.63	3.88E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.34E+10	2.18E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.43	4.43E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.34E+10	2.18E+10	
SY-101	Cs137	12/1/91	BOB9L0	1.62	3.88E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.33E+10	2.17E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	3.94E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.33E+10	2.17E+10	
AN103	Cs-137	3/28/86	R-8190	1.48	7.17E+05	uCi/l	S	Sludge	Braun	Cs-137	2.65E+10	2.17E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.43	4.39E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.32E+10	2.16E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.90E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.31E+10	2.15E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.83E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.30E+10	2.15E+10	
SY-101	Cs137	12/1/91	BOB968	1.58	3.94E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.30E+10	2.15E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.87E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.31E+10	2.15E+10	
SY-101	Cs137	12/1/91	BOB9L9	1.6492	3.76E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.29E+10	2.14E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.84E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.29E+10	2.14E+10	
SY-101	Cs137	12/1/91	BOBB23	1.6	3.88E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.30E+10	2.14E+10	
SY-101	Cs137	12/1/91	BOB9L0	1.62	3.84E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.30E+10	2.14E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.87E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.29E+10	2.13E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.84E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.27E+10	2.12E+10	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.85E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.28E+10	2.12E+10	
SY101	Cs-137	5/30/86	R-6395	1.17	6.95E+05	uCi/l	R	Slurry	Braun	Cs-137	2.57E+10	2.11E+10	
SY101	Cs-137	5/30/86	R-6395	1.29	6.95E+05	uCi/l	R	Slurry	Braun	Cs-137	2.57E+10	2.11E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.76E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.26E+10	2.11E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.43	4.28E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.26E+10	2.11E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	3.68E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.26E+10	2.11E+10	
SY101	Cs137	5/30/86	R-6395	1.6	6.95E+05	uCi/L	R	Slurry	RAW	Cs137	2.57E+10	2.11E+10	
SY101	Cs137	5/30/86	R-6395		6.95E+05	uCi/L	Y	Slurry/Sludge	RAW	Cs137	2.57E+10	2.11E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.75E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.25E+10	2.10E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	3.75E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.25E+10	2.10E+10	
SY-101	Cs137	12/1/91	BOB950	1.51	4.04E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.26E+10	2.10E+10	
SY-101	Cs137	12/1/91	BOB9H1	1.63	3.72E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.24E+10	2.09E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	3.66E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.25E+10	2.09E+10	
AW102	Cs137	2/13/86	R-8119	1.51	6.90E+05	uCi/L	R	SLURRY	RAW	Cs137	2.55E+10	2.08E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.77E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.23E+10	2.08E+10	
SY-101	Cs137	12/1/91	BOB9K2	1.67	3.61E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.23E+10	2.08E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.75E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.22E+10	2.07E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	3.83E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.22E+10	2.07E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.76E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.23E+10	2.07E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	3.98E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.21E+10	2.06E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.73E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.21E+10	2.06E+10	
SY-101	Cs137	12/1/91	BOB9LO	1.62	3.69E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.21E+10	2.06E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.68E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.20E+10	2.05E+10	
SY-101	Cs137	12/1/91	BOBB23	1.6	3.71E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.20E+10	2.05E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	3.71E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.20E+10	2.05E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	4.02E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.20E+10	2.05E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	3.64E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.19E+10	2.04E+10	
SY-101	Cs137	12/1/91	BOB9H1	1.63	3.64E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.20E+10	2.04E+10	
SY-101	Cs137	12/1/91	BOB9L9	1.6492	3.57E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.18E+10	2.03E+10	
SY101	Cs-137	5/30/86	R-6394	1.69	6.66E+05	uCi/l	R	Slurry	Braun	Cs-137	2.46E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	3.60E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.16E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB9H1	1.63	3.59E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.17E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB9L9	1.6492	3.55E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.17E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB9LO	1.62	3.62E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.17E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.43	4.09E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.16E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	3.60E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.16E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	3.67E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.17E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.67E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.17E+10	2.02E+10	
SY101	Cs137	5/30/86	R-6394		6.66E+05	uCi/L	R	Slurry	RAW	Cs137	2.46E+10	2.02E+10	
SY101	Cs137	5/30/86	R-6395	1.6	6.66E+05	uCi/L	S	Bottom Sample	RAW	Cs137	2.46E+10	2.02E+10	
SY101	Cs137	5/30/86	R-6394	1.69	6.66E+05	uCi/L	S	Bottom Sample	RAW	Cs137	2.46E+10	2.02E+10	
SY-101	Cs137	12/1/91	BOBBB5	1.6	3.64E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.15E+10	2.01E+10	
SY-101	Cs137	12/1/91	BOB8W7	1.43	4.08E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.16E+10	2.01E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Cs137	12/1/91	BOBBB5	1.6	3.65E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.16E+10	2.01E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.60E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.13E+10	1.99E+10	
SY-101	Cs137	12/1/91	BOB9H1	1.63	3.54E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.13E+10	1.99E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	3.90E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.14E+10	1.99E+10	
SY101	Cs137	5/1/91					S	Bulk, nonconv layr	Wastren	Cs137	2.16E+10	1.99E+10	
SY-101	Cs137	12/1/91	BOB9L9	1.6492	3.49E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.13E+10	1.98E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	3.89E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.13E+10	1.98E+10	
AN107	Cs137	3/14/85	R-3638		4.16E+02	uCi/g	S	Solids	RAW	Cs137	2.46E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.51E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.11E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	3.58E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.12E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.51E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.11E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOB985	1.44	3.97E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.12E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.52E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.12E+10	1.97E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.58E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.12E+10	1.97E+10	
AN104	Cs137	1/15/85	R-3415	1.4	6.65E+05	uCi/L	S	SLURRY	RAW	Cs137	2.46E+10	1.96E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	3.67E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.10E+10	1.96E+10	
SY-101	Cs137	12/1/91	BOB9R3	1.625	3.50E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.10E+10	1.96E+10	
SY101	Cs137	5/1/91			3.60E+02	uCi/g	S	Core Sample	RAW	Cs137	2.13E+10	1.96E+10	
SY-101	Cs137	12/1/91	BOBB23	1.6	3.53E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.09E+10	1.95E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.54E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.10E+10	1.95E+10	
SY-101	Cs137	12/1/91	BOB930	1.6239	3.49E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.10E+10	1.95E+10	
SY-101	Cs137	12/1/91	BOBBS1	1.625	3.47E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.09E+10	1.94E+10	
AN102	Cs-137	3/14/85	R-3640		4.10E+02	uCi/gm	S	Solids	Braun	Cs-137	2.43E+10	1.94E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.40E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.06E+10	1.91E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	3.34E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.05E+10	1.91E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.47E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.05E+10	1.91E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.42E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.02E+10	1.89E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.42E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.02E+10	1.89E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.41E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.02E+10	1.88E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.41E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.02E+10	1.88E+10	
SY-101	Cs137	12/1/91	BOBB8T5	1.5	3.64E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.02E+10	1.88E+10	
SY101	Cs137	6/7/77		1.558	7.60E-01	Ci/L	R	Slurry	RAW	Cs137	2.81E+10	1.88E+10	
AW102	Cs-137	2/4/86	T-5579	1.49	6.21E+05	uCi/l	R	Slurry	Braun	Cs-137	2.30E+10	1.87E+10	
AW102	Cs137	2/4/86	T-5579	1.49	6.21E+05	uCi/L	R	SLURRY	RAW	Cs137	2.30E+10	1.87E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	3.40E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	2.01E+10	1.87E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.40E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.01E+10	1.87E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.40E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.01E+10	1.87E+10	
SY-101	Cs137	12/1/91	BOBB23	1.6	3.37E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	2.00E+10	1.86E+10	
AW101	Cs137	7/1/87					G	Sludge	Wastren	Cs137	2.21E+10	1.86E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	3.35E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.98E+10	1.85E+10	
SY-101	Cs137	12/1/91	BOBBC7	1.6	3.35E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.98E+10	1.85E+10	
SY101	Cs137	8/14/80	R-6395		6.95E+05	uCi/L	R	Slurry	RAW	Cs137	2.57E+10	1.85E+10	
AW101	Cs-137	6/28/90	R-4796	1.63	5.52E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	2.04E+10	1.84E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Cs137	12/1/91	BOB930	1.6239	3.28E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.97E+10	1.84E+10	
SY-101	Cs137	12/1/91	BOB9K2	1.67	3.19E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.97E+10	1.84E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	3.33E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.97E+10	1.84E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.47E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.96E+10	1.83E+10	
AW102	Cs137	1/16/85	R-3485	1.45	6.18E+05	uCi/L	R	SLURRY	RAW	Cs137	2.29E+10	1.82E+10	
AW102	Cs137	3/4/85	R-4680	1.53	6.13E+05	uCi/L	R	SLURRY	RAW	Cs137	2.27E+10	1.81E+10	
SY-101	Cs137	12/1/91	BOBBQ6	1.6	3.28E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.94E+10	1.81E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.25E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.94E+10	1.81E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	3.29E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.95E+10	1.81E+10	
AW101	Cs-137	6/28/90	R-4803	1.575	5.41E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	2.00E+10	1.80E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.42E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.94E+10	1.80E+10	
AW101	Cs-137	6/28/90	R-4799	1.555	5.39E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.99E+10	1.80E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	3.24E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.92E+10	1.79E+10	
SY103	Cs137	6/24/85	R-5255	1.69	6.01E+05	uCi/L	R	Slurry	RAW	Cs137	2.22E+10	1.79E+10	
SY103	Cs-137	6/24/85	R-5255	1.69	6.01E+05	uCi/l	R	Slurry/Solids	Braun	Cs-137	2.22E+10	1.79E+10	
AN107	Cs137	5/13/94	R4047	1.464	3.34E+02	uCi/g	G	Sludge	RAW	Cs137	1.81E+10	1.78E+10	
SY-101	Cs137	12/1/91	BOB9Q6	1.615	3.19E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.91E+10	1.78E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	3.22E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.91E+10	1.78E+10	
SY-101	Cs137	12/1/91	BOB930	1.6239	3.16E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.90E+10	1.77E+10	
SY101	Cs137	8/14/80	R-6394		6.66E+05	uCi/L	R	Slurry	RAW	Cs137	2.46E+10	1.77E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.33E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.89E+10	1.76E+10	
SY-101	Cs137	12/1/91	BOBBD5	1.6	3.20E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.89E+10	1.76E+10	
SY101	Cs137	5/1/91					S	Bulk, nonconv layr	Wastren	Cs137	1.91E+10	1.76E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	3.28E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.88E+10	1.75E+10	
AW102	Cs-137	2/4/86	T-5578	1.47	5.78E+05	uCi/l	R	Slurry	Braun	Cs-137	2.14E+10	1.74E+10	
AW101	Cs-137	6/28/90	R-4802	1.55	5.22E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.93E+10	1.74E+10	
AW101	Cs-137	6/28/90	R-4794	1.57	5.22E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.93E+10	1.74E+10	
AW102	Cs137	2/4/86	T-5578	1.47	5.78E+05	uCi/L	R	SLURRY	RAW	Cs137	2.14E+10	1.74E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.30E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.87E+10	1.74E+10	
SY-101	Cs137	12/1/91	BOBBQ6	1.6	3.15E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.86E+10	1.74E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	3.42E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.87E+10	1.74E+10	
AN104	Cs137	1/1/85					Y	Slurry/Sludge	Wastren	Cs137	2.19E+10	1.74E+10	
AW101	Cs-137	6/28/90	R-4801	1.555	5.19E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.92E+10	1.73E+10	
SY-101	Cs137	12/1/91	BOBBC7	1.6	3.13E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.85E+10	1.73E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.07E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.86E+10	1.73E+10	
SY101	Cs137	5/1/91					T	Crust	Wastren	Cs137	1.88E+10	1.73E+10	
AW101	Cs-137	6/28/90	R-4792	1.53	5.18E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.92E+10	1.73E+10	
AW101	Cs-137	6/28/90	R-4793	1.535	5.18E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.92E+10	1.73E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.11E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.84E+10	1.72E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	3.11E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.84E+10	1.72E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	3.18E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.85E+10	1.72E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	3.01E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.85E+10	1.72E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.06E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.85E+10	1.72E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW101	Cs-137	6/28/90	R-4800	1.555	5.13E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.90E+10	1.71E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	3.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.84E+10	1.71E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	3.81E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.84E+10	1.71E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.04E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.84E+10	1.71E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.02E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.83E+10	1.70E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	3.29E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.83E+10	1.70E+10	
SY103	Cs137	3/23/81		1.08	6.32E+05	uCi/L	R	Slurry	RAW	Cs137	2.34E+10	1.70E+10	
SY101	Cs137	5/1/91					S	Solids	Wastren	Cs137	1.84E+10	1.69E+10	
SY-101	Cs137	12/1/91	BOBBC7	1.6	3.06E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.81E+10	1.69E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	3.00E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.81E+10	1.69E+10	
SY103	Cs137	9/1/86	12	1.6	5.54E+05	uCi/L	S	Core Segment	RAW	Cs137	2.05E+10	1.69E+10	
SY101	Cs137	5/1/91					S	Solids	Wastren	Cs137	1.83E+10	1.68E+10	
SY-101	Cs137	12/1/91	BOBBC7	1.6	3.05E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.81E+10	1.68E+10	
AW101	Cs-137	6/28/90	R-4798	1.56	5.01E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.85E+10	1.67E+10	
SY-101	Cs137	12/1/91	BOB930	1.6239	2.99E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.80E+10	1.67E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.15E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.78E+10	1.66E+10	
AW101	Cs-137	6/28/90	R-4795	1.54	4.97E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.84E+10	1.66E+10	
AW101	Cs-137	6/28/90	R-4797	1.56	4.97E+05	uCi/l	G	Sludge/Composite	Braun	Cs-137	1.84E+10	1.66E+10	
SY-101	Cs137	12/1/91	BOBBX7	1.6	2.99E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.77E+10	1.65E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.13E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.77E+10	1.65E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.12E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.77E+10	1.65E+10	
SY-101	Cs137	12/1/91	BOB8Y6	1.53	3.13E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.77E+10	1.65E+10	
SY-101	Cs137	12/1/91	BOB8T5	1.5	3.20E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.78E+10	1.65E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	2.98E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.76E+10	1.64E+10	
AW101	Cs-137	6/28/90	RAT-AW101-1	1.54	4.89E+05	uCi/l	I	Composite	Braun	Cs-137	1.81E+10	1.63E+10	
SY-101	Cs137	12/1/91	BOB930	1.6239	2.91E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.75E+10	1.63E+10	
SY-101	Cs137	12/1/91	BOB927	1.6	2.96E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.75E+10	1.63E+10	
AN103	Cs-137	1/25/85	R-3645	1.35	5.53E+05	uCi/l	G	Sludge	Braun	Cs-137	2.05E+10	1.63E+10	
SY-101	Cs137	12/1/91	BOB9B6	1.57	3.00E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.74E+10	1.62E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	2.83E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.71E+10	1.59E+10	
AW101	Cs137	7/2/86	R-9896	1.53	5.20E+05	uCi/L	R	SLURRY	RAW	Cs137	1.92E+10	1.58E+10	
AW101	Cs137	6/26/86	R-9894	1.5	5.10E+05	uCi/L	R	SLURRY	RAW	Cs137	1.89E+10	1.55E+10	
AW101	Cs137	6/30/86	R-9895	1.57	5.10E+05	uCi/L	R	SLURRY	RAW	Cs137	1.89E+10	1.55E+10	
SY-101	Cs137	12/1/91	BOB927	1.6	2.81E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.66E+10	1.55E+10	
SY-101	Cs137	12/1/91	BOB271	1.6339	2.73E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.65E+10	1.54E+10	
SY-101	Cs137	12/1/91	BOB909	1.55	2.88E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.65E+10	1.54E+10	
AN103	Cs-137	1/25/85	R-3644	1.36	5.23E+05	uCi/l	G	Sludge	Braun	Cs-137	1.94E+10	1.54E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	3.40E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.64E+10	1.53E+10	
AN103	Cs137	1/18/85	R-3182		5.18E+05	uCi/L	G	Sludge	RAW	Cs137	1.92E+10	1.52E+10	
AW102	Cs137	1/16/85	R-3487	1.48	5.15E+05	uCi/L	R	SLURRY	RAW	Cs137	1.91E+10	1.52E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.54E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.63E+10	1.52E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	2.74E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.62E+10	1.51E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	2.74E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.62E+10	1.51E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Cs137	12/1/91	BOB281	1.244	3.53E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.62E+10	1.51E+10	
AW102	Cs137	1/16/85	R-3482	1.43	5.06E+05	uCi/L	R	SLURRY	RAW	Cs137	1.87E+10	1.49E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.47E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.60E+10	1.49E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	2.70E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.60E+10	1.49E+10	
AN107	Cs137	5/13/94	R4048	1.473	2.76E+02	uCi/g	G	Sludge	RAW	Cs137	1.50E+10	1.48E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.46E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.59E+10	1.48E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.46E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.59E+10	1.48E+10	
AW102	Cs137	1/16/85	R-3486	1.42	4.98E+05	uCi/L	R	SLURRY	RAW	Cs137	1.84E+10	1.47E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.43E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.58E+10	1.47E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	2.65E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.57E+10	1.46E+10	
SY-101	Cs137	12/1/91	BOBBX9	1.6607	2.51E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.54E+10	1.44E+10	
SY-101	Cs137	12/1/91	BOBB95	1.6	2.61E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.55E+10	1.44E+10	
AW101	Cs137	7/6/86	R-9897	1.49	4.69E+05	uCi/L	R	SLURRY	RAW	Cs137	1.74E+10	1.43E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	3.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.53E+10	1.42E+10	
AW103	Cs-137	4/12/83	R-5467	1.42	4.96E+05	uCi/l	S	Solids	Braun	Cs-137	1.84E+10	1.40E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.29E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.50E+10	1.40E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.24E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.49E+10	1.39E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.26E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.49E+10	1.39E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.23E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.49E+10	1.38E+10	
SY-101	Cs137	12/1/91	BOB280	1.3305	3.00E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.48E+10	1.38E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.25E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.49E+10	1.38E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.23E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.48E+10	1.37E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	2.68E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.47E+10	1.37E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.23E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.48E+10	1.37E+10	
SY-101	Cs137	12/1/91	BOB280	1.3305	2.97E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.46E+10	1.36E+10	
SY-101	Cs137	12/1/91	BOB283	1.6	2.47E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.46E+10	1.36E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.44E+10	1.35E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	2.44E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.44E+10	1.35E+10	
SY-101	Cs137	12/1/91	BOB281	1.244	3.14E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.45E+10	1.35E+10	
SY-101	Cs137	12/1/91	BOB985	1.44	2.72E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.45E+10	1.35E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	3.00E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.45E+10	1.35E+10	
SY-101	Cs137	12/1/91	BOB930	1.6239	2.40E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.44E+10	1.34E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	2.42E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.43E+10	1.33E+10	
AN102	Cs137	2/28/85	R-3640	1.39	4.48E+05	uCi/L	S	Solids	RAW	Cs137	1.66E+10	1.32E+10	
AW102	Cs137	1/16/85	R-3483	1.41	4.49E+05	uCi/L	R	SLURRY	RAW	Cs137	1.66E+10	1.32E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.02E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.38E+10	1.29E+10	
SY-101	Cs137	12/1/91	BOB282	1.235	3.04E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.39E+10	1.29E+10	
SY-101	Cs137	12/1/91	BOB283	1.6	2.33E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.38E+10	1.28E+10	
SY-101	Cs137	12/1/91	BOB283	1.6	2.33E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.38E+10	1.28E+10	
SY-101	Cs137	12/1/91	BOB9Z7	1.6	2.28E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.35E+10	1.26E+10	
SY103	Cs-137	7/2/85	R-5256	1.35	4.15E+05	uCi/l	R	Slurry/Solids	Braun	Cs-137	1.54E+10	1.23E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	3.00E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.32E+10	1.23E+10	
SY-101	Cs137	12/1/91	BOBB41	1.6	2.20E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.30E+10	1.21E+10	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Cs137	12/1/91	BOB281	1.244	2.80E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.29E+10	1.20E+10	
SY-101	Cs137	12/1/91	BOB927	1.6	2.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.28E+10	1.19E+10	
SY-101	Cs137	12/1/91	BOB927	1.6	2.16E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.28E+10	1.19E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.91E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.28E+10	1.19E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.80E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.23E+10	1.15E+10	
SY-101	Cs137	12/1/91	BOB280	1.3305	2.48E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.22E+10	1.14E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.76E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.21E+10	1.13E+10	
SY-101	Cs137	12/1/91	BOB927	1.6	2.03E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.20E+10	1.12E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	2.49E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.20E+10	1.12E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	2.01E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.19E+10	1.11E+10	
SY-101	Cs137	12/1/91	BOB9X3	1.6	1.99E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.18E+10	1.10E+10	
AW103	Cs-137	2/27/87	7936	1.51	2.34E+02	uCi/gm	S	Solids	Braun	Cs-137	1.31E+10	1.09E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.66E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.17E+10	1.09E+10	
AW101	Cs137	6/23/86	R-9893	1.36	3.55E+05	uCi/L	R	SLURRY	RAW	Cs137	1.31E+10	1.08E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.60E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.14E+10	1.07E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.60E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.14E+10	1.07E+10	
SY-101	Cs137	12/1/91	BOB9D7	1.48	2.07E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.13E+10	1.06E+10	
AN105	Cs-137	11/9/84	RAT-AN105-1	1.434	3.60E+05	uCi/l	G	Sludge	Braun	Cs-137	1.33E+10	1.05E+10	
SY-101	Cs137	12/1/91	BOB276	1.1885	2.57E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.13E+10	1.05E+10	
SY-101	Cs137	12/1/91	BOB283	1.6	1.89E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.12E+10	1.04E+10	
SY-101	Cs137	12/1/91	BOB279	1.306	2.29E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.11E+10	1.03E+10	
SY-101	Cs137	12/1/91	BOB280	1.3305	2.08E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.02E+10	9.54E+09	
SY-101	Cs137	12/1/91	BOB279	1.306	2.06E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.95E+09	9.27E+09	
SY-101	Cs137	12/1/91	BOB280	1.3305	2.02E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.94E+09	9.26E+09	
SY-101	Cs137	12/1/91	BOB279	1.306	2.02E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	9.76E+09	9.09E+09	
SY-101	Cs137	12/1/91	BOB280	1.3305	1.97E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	9.70E+09	9.03E+09	
SY101	Cs137	5/30/86	R-6396	1.33	2.88E+05	uCi/L	R	Slurry	RAW	Cs137	1.07E+10	8.74E+09	
SY101	Cs137	5/30/86	R-6396		2.88E+05	uCi/L	Y	Slurry/Sludge	RAW	Cs137	1.07E+10	8.74E+09	
SY102	Cs-137	10/1/88	102-SY-4B	1.8	1.50E+02	uCi/gm	G	Sludge	Braun	Cs-137	9.99E+09	8.65E+09	
SY102	Cs137	10/1/88					G	Sludge	Wastren	Cs137	9.99E+09	8.65E+09	
AP102	Cs137	4/1/93	BOB2T9	1.2	2.42E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.95E+09	8.60E+09	
AP102	Cs137	4/1/93	BOB2T9	1.2	2.41E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.92E+09	8.57E+09	
AP102	Cs137	4/1/93	BOB2L9	1.2	2.38E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.81E+09	8.46E+09	
AP102	Cs137	4/1/93	BOB2M4	1.195	2.37E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.77E+09	8.42E+09	
SY102	Cs-137	11/1/84	R-3318B	1.61	1.78E+02	uCi/gm	S	Supernate/Solids	Braun	Cs-137	1.06E+10	8.39E+09	
AP102	Cs137	4/1/93	BOB2N4	1.2	2.36E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.73E+09	8.39E+09	
AP102	Cs137	4/1/93	BOB2L9	1.2	2.36E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.73E+09	8.39E+09	
AP102	Cs137	4/1/93	BOB2M4	1.195	2.35E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.70E+09	8.35E+09	
AP102	Cs137	4/1/93	BOB2L7	1.2	2.35E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.70E+09	8.35E+09	
AP102	Cs137	4/1/93	BOB2M9	1.6	2.35E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.70E+09	8.35E+09	
AP102	Cs137	4/1/93	BOB2N4	1.2	2.34E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.66E+09	8.32E+09	
AP102	Cs137	4/1/93	BOB2N0	1.6	2.33E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.62E+09	8.28E+09	
AP102	Cs137	4/1/93	BOB2N0	1.6	2.33E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.62E+09	8.28E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP102	Cs137	4/1/93	BOB2L7	1.2	2.32E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.58E+09	8.25E+09	
AP102	Cs137	4/1/93	BOB2L8	1.21	2.32E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.58E+09	8.25E+09	
AP102	Cs137	4/1/93	BOB2M8	1.6	2.30E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.51E+09	8.17E+09	
AP102	Cs137	4/1/93	BOB2M8	1.6	2.30E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.51E+09	8.17E+09	
AP102	Cs137	4/1/93	BOB2M9	1.6	2.29E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.47E+09	8.14E+09	
AP102	Cs137	4/1/93	BOB2N1	1.6	2.29E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.47E+09	8.14E+09	
SY-101	Cs137	12/1/91	BOBBX7	1.6	1.47E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.70E+09	8.11E+09	
AP102	Cs137	4/1/93	BOB2M1	1.205	2.28E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.44E+09	8.10E+09	
AP102	Cs137	4/1/93	BOB2N1	1.6	2.28E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.44E+09	8.10E+09	
AP102	Cs137	4/1/93	BOB2M1	1.205	2.28E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.44E+09	8.10E+09	
AP102	Cs137	4/1/93	BOB2N3	1.6	2.27E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.40E+09	8.07E+09	
AP102	Cs137	4/1/93	BOB2N3	1.6	2.26E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.36E+09	8.03E+09	
AP102	Cs137	4/1/93	BOB2M0	1.2	2.25E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.33E+09	8.00E+09	
AP102	Cs137	4/1/93	BOB2M3	1.2	2.25E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.33E+09	8.00E+09	
AP102	Cs137	4/1/93	BOB2M5	1.19	2.25E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.33E+09	8.00E+09	
AP102	Cs137	4/1/93	BOB2M0	1.2	2.25E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.33E+09	8.00E+09	
AP102	Cs137	4/1/93	BOB2M3	1.2	2.25E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.33E+09	8.00E+09	
AP102	Cs137	4/1/93	BOB2N2	1.6	2.25E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.33E+09	8.00E+09	
SY-101	Cs137	12/1/91	BOB280	1.3305	1.74E+02	uCi/g	S	PRIMARY RESULT	TCD	Cs137	8.57E+09	7.98E+09	
AP102	Cs137	4/1/93	BOB2M1	1.205	2.24E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.29E+09	7.96E+09	
AP102	Cs137	4/1/93	BOB2N2	1.6	2.24E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.29E+09	7.96E+09	
AP102	Cs137	4/1/93	BOB2M2	1.2	2.23E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.25E+09	7.93E+09	
SY-101	Cs137	12/1/91	BOB280	1.3305	1.73E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.52E+09	7.93E+09	
AP102	Cs137	4/1/93	BOB2M5	1.19	2.22E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.21E+09	7.89E+09	
AP102	Cs137	4/1/93	BOB2M1	1.205	2.22E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.21E+09	7.89E+09	
SY-101	Cs137	12/1/91	BOBBX7	1.6	1.43E+02	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	8.47E+09	7.89E+09	
AP102	Cs137	4/1/93	BOB2M6	1.205	2.19E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.10E+09	7.78E+09	
AP102	Cs137	4/1/93	BOB2L8	1.21	2.17E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	8.03E+09	7.71E+09	
AP102	Cs137	4/1/93	BOB2M2	1.2	2.17E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	8.03E+09	7.71E+09	
AP102	Cs137	4/1/93	BOB2M2	1.2	2.16E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	7.99E+09	7.68E+09	
AP102	Cs137	4/1/93	BOB2M7	1.2	2.16E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	7.99E+09	7.68E+09	
SY101	Cs137	8/14/80	R-6396		2.88E+05	uCi/L	R	Slurry	RAW	Cs137	1.07E+10	7.65E+09	
AP102	Cs137	4/1/93	BOB2M2	1.2	2.15E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	7.96E+09	7.64E+09	
AP102	Cs137	4/1/93	BOB2M6	1.205	2.15E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	7.96E+09	7.64E+09	
AP102	Cs137	4/1/93	BOB2M7	1.2	2.12E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	7.84E+09	7.53E+09	
AP102	Cs137	4/1/93	BOB2T9	1.2	2.08E+02	uCi/mL	S	DUPLICATE RESULT	TCD	Cs137	7.70E+09	7.39E+09	
AP102	Cs137	4/1/93	BOB2T9	1.2	2.03E+02	uCi/mL	S	PRIMARY RESULT	TCD	Cs137	7.51E+09	7.21E+09	
AW102	Cs137	12/7/82	3256	1.262	2.50E+05	uCi/L	R	SLURRY	RAW	Cs137	9.25E+09	7.01E+09	
AW102	Cs137	11/4/82		1.262	2.50E+05	uCi/L	R	SLURRY	RAW	Cs137	9.25E+09	6.99E+09	
SY102	Cs-137	11/1/84	R-3316B	1.53	1.54E+02	uCi/gm	S	Supernate/Solids	Braun	Cs-137	8.72E+09	6.90E+09	
AW103	Cs-137	3/20/83	RAT-AW103-4A	1.271	2.28E+05	uCi/l	R	Slurry	Braun	Cs-137	8.44E+09	6.43E+09	
SY102	Cs-137	11/1/84	R-3317B	1.59	1.33E+02	uCi/gm	S	Supernate/Solids	Braun	Cs-137	7.82E+09	6.19E+09	
AW101	Cs137	1/13/86	R-7695	1.29	2.03E+05	uCi/L	R	SLURY	RAW	Cs137	7.51E+09	6.11E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Cs-137	2/27/87	7935	1.54	1.13E+02	uCi/gm	S	Solids	Braun	Cs-137	6.44E+09	5.38E+09	
AW105	Cs137	5/1/90	BO8W87	1.4275	2.50E+08	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	5.95E+09	5.34E+09	
AW103	Cs-137	2/27/87	7938	1.56	1.04E+02	uCi/gm	S	Solids	Braun	Cs-137	6.00E+09	5.01E+09	
AW105	Cs-137	2/24/87	T-7946	1.36	1.54E+05	uCi/l	I	Composite	Braun	Cs-137	5.70E+09	4.76E+09	
AW105	Cs137	2/18/87	7946	1.36	1.54E+05	uCi/L	G	Sludge	RAW	Cs137	5.70E+09	4.75E+09	
SY102	Cs-137	10/5/84	R-3036		1.01E+02	uCi/gm	S	Solids	Braun	Cs-137	5.98E+09	4.72E+09	
SY102	Cs-137	1/10/85	R-3316	1.54	1.34E+05	uCi/l	S	Supernate/Solids	Braun	Cs-137	4.96E+09	3.94E+09	
SY102	Cs137	1/10/85	R-3316	1.54	1.34E+05	uCi/L	S	Solids	RAW	Cs137	4.96E+09	3.94E+09	
AW105	Cs137	5/1/90	BO8W87	1.4275	1.80E+08	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	4.28E+09	3.85E+09	
AW105	Cs137	2/18/87	7942	1.41	1.12E+05	uCi/L	G	Sludge	RAW	Cs137	4.14E+09	3.46E+09	
AW105	Cs-137	2/24/87	T-7942	1.41	1.12E+05	uCi/l	I	Composite	Braun	Cs-137	4.14E+09	3.46E+09	
AW103	Cs137	1/1/89			6.68E+01	uCi/g	I	COMPOSITE	RAW	Cs137	3.95E+09	3.44E+09	
SY102	Cs137	2/27/90	12M HNO3		6.23E+01	uCi/g	S	Solids	RAW	Cs137	3.69E+09	3.30E+09	
SY102	Cs137	2/27/90	9M HNO3		6.05E+01	uCi/g	S	Solids	RAW	Cs137	3.58E+09	3.20E+09	
AW103	Cs137	4/11/83		1.235	1.13E+05	uCi/L	O	OTHER	RAW	Cs137	4.18E+09	3.19E+09	
SY102	Cs137	2/27/90	6M HNO3		5.77E+01	uCi/g	S	Solids	RAW	Cs137	3.42E+09	3.06E+09	
SY102	Cs137	2/27/90	3M HNO3		5.68E+01	uCi/g	S	Solids	RAW	Cs137	3.36E+09	3.01E+09	
AW103	Cs-137	2/27/87	7934		5.86E+01	uCi/gm	S	Solids	Braun	Cs-137	3.47E+09	2.90E+09	
AW102	Cs137	7/30/85	R-5899	1.55	8.50E+04	uCi/L	R	SLURRY	RAW	Cs137	3.15E+09	2.53E+09	
AW106	Cs137	7/30/85	R-5899	1.55	8.50E+04	uCi/L	R	Slurry	RAW	Cs137	3.15E+09	2.53E+09	
AW103	Cs-137	3/20/83	RAT-AW103-3	1.265	8.60E+04	uCi/l	R	Slurry	Braun	Cs-137	3.18E+09	2.43E+09	
AW103	Cs-137	2/27/87	7932	1.47	4.95E+01	uCi/gm	S	Solids	Braun	Cs-137	2.69E+09	2.25E+09	
AW105	Cs137	5/1/90	BO8W82	1.36	1.10E+08	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	2.49E+09	2.24E+09	
AW105	Cs137	2/18/87	7941	1.34	6.70E+04	uCi/L	G	Sludge	RAW	Cs137	2.48E+09	2.07E+09	
AW105	Cs-137	2/24/87	T-7941	1.34	6.70E+04	uCi/l	I	Composite	Braun	Cs-137	2.48E+09	2.07E+09	
AW103	Cs-137	2/27/87	7933		3.92E+01	uCi/gm	S	Solids	Braun	Cs-137	2.32E+09	1.94E+09	
AW105	Cs-137	2/24/87	RAT-AW105-1	1.3	5.94E+04	uCi/l	G	Sludge/Composite	Braun	Cs-137	2.20E+09	1.83E+09	
AW105	Cs137	2/1/87					G	Sludge	Wastren	Cs137	2.20E+09	1.83E+09	
AW102	Cs137	4/23/84		1.485	6.32E+04	uCi/L	S	SOLIDS	RAW	Cs137	2.34E+09	1.83E+09	
SY-101	Cs137	12/1/91	BOBBB5	1.6	3.10E+01	uCi/g	S	DUPLICATE RESULT	TCD	Cs137	1.84E+09	1.71E+09	
AW103	Cs137	1/1/89			3.11E+01	uCi/g	S	SOLIDS	RAW	Cs137	1.84E+09	1.60E+09	
AW103	Cs-137	2/27/87	7930	1.4	3.29E+01	uCi/gm	S	Solids	Braun	Cs-137	1.70E+09	1.42E+09	
AW103	Cs137	1/1/89			2.73E+01	uCi/g	S	SOLIDS	RAW	Cs137	1.62E+09	1.41E+09	
AW103	Cs137	1/1/89			2.65E+01	uCi/g	S	SOLIDS	RAW	Cs137	1.57E+09	1.37E+09	
AW105	Cs137	5/1/90	BO8W79	1.235	7.40E+07	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	1.52E+09	1.37E+09	
AW103	Cs137	1/1/89			2.61E+01	uCi/g	S	SOLIDS	RAW	Cs137	1.55E+09	1.35E+09	
AW105	Cs-137	5/1/86	RAT-AW105-2B	1.2	3.69E+01	uCi/gm	G	Sludge	Braun	Cs-137	1.64E+09	1.34E+09	
AW105	Cs-137	2/24/87	T-7937	1.17	3.90E+04	uCi/l	I	Composite	Braun	Cs-137	1.44E+09	1.20E+09	
AW105	Cs137	2/18/87	7937	1.3	3.90E+04	uCi/L	G	Sludge	RAW	Cs137	1.44E+09	1.20E+09	
SY-101	Cs137	12/1/91	BOBBB5	1.6	2.10E+01	uCi/g	S	PRIMARY RESULT	TCD	Cs137	1.24E+09	1.16E+09	
AW103	Cs137	9/3/85	R-6449		3.81E+04	uCi/L	R	SLURRY	RAW	Cs137	1.41E+09	1.14E+09	
AW103	Cs137	9/3/85	R-6450		3.80E+04	uCi/L	R	SLURRY	RAW	Cs137	1.41E+09	1.13E+09	
AW105	Cs137	5/1/90	BO8W81	1.4	5.40E+07	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	1.26E+09	1.13E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Double-Shell Tank Solids [Sketch ES-VAL-CR30]
 ASA Value: 6.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Cs-137	2/27/87	7928	1.28	2.75E+01	uCi/gm	S	Solids	Braun	Cs-137	1.30E+09	1.09E+09	
AW105	Cs137	2/18/87	7940	1.43	3.49E+04	uCi/L	G	Sludge	RAW	Cs137	1.29E+09	1.08E+09	
AW105	Cs-137	2/24/87	T-7940	1.43	3.49E+04	uCi/l	I	Composite	Braun	Cs-137	1.29E+09	1.08E+09	
AW105	Cs137	5/1/90	B08W80	1.235	5.80E+07	dis/min/g	S	PRIMARY RESULT	TCD	Cs137	1.19E+09	1.07E+09	
AW103	Cs-137	2/27/87	7927	1.22	2.79E+01	uCi/gm	S	Solids	Braun	Cs-137	1.26E+09	1.05E+09	
AW103	Cs137	12/11/88	R-4346		3.22E+04	uCi/L	G	SLUDGE	RAW	Cs137	1.19E+09	1.04E+09	
AW103	Cs-137	2/27/87	7929	1.38	2.25E+01	uCi/gm	S	Solids	Braun	Cs-137	1.15E+09	9.59E+08	
AW105	Cs137	2/18/87	7939	1.18	3.10E+04	uCi/L	G	Sludge	RAW	Cs137	1.15E+09	9.57E+08	
AW105	Cs-137	2/24/87	T-7939	1.18	3.00E+04	uCi/l	I	Composite	Braun	Cs-137	1.11E+09	9.27E+08	
AW103	Cs137	10/1/88	R-4252		2.89E+04	uCi/L	G	SLUDGE	RAW	Cs137	1.07E+09	9.26E+08	
SY102	Cs137	3/23/89			1.44E+01	uCi/gm	S	Solids	RAW	Cs137	8.50E+08	7.44E+08	
AW103	Cs-137	12/11/88	R-4346B	1.49	1.20E+01	uCi/gm	S	Solids	Braun	Cs-137	6.62E+08	5.76E+08	
SY-101	Cs137	12/1/91	B0B985	1.44	7.00E+00	uCi/g	S	PRIMARY RESULT	TCD	Cs137	3.73E+08	3.47E+08	
AW103	Cs-137	6/15/85	RAT-AW103-2A		7.20E+03	uCi/l	S	Solids	Braun	Cs-137	2.66E+08	2.14E+08	
AP103	Cs137	1/8/92	R-949		6.03E+03	uCi/L	I	Composite	RAW	Cs137	2.23E+08	2.08E+08	
AP103	Cs137	1/8/92	R-949		5.99E+03	uCi/L	I	Composite	RAW	Cs137	2.22E+08	2.07E+08	
AW101	Cs137	8/18/85	T9368	1.0392	6.43E+03	uCi/L	O	OTHER	RAW	Cs137	2.38E+08	1.92E+08	
AW103	Cs-137	8/1/84	2836B	1.517	5.99E+03	uCi/l	S	Solids	Braun	Cs-137	2.22E+08	1.74E+08	
SY102	Cs137	8/19/89	T-5155		4.94E+03	uCi/L	S	Solids	RAW	Cs137	1.83E+08	1.62E+08	
AW103	Cs-137	8/1/84	2837	1.426	4.92E+03	uCi/l	S	Solids	Braun	Cs-137	1.82E+08	1.43E+08	
AW103	Cs-137	6/1/84	202107B		4.80E+03	uCi/l	S	Solids	Braun	Cs-137	1.78E+08	1.39E+08	
AW103	Cs137	6/1/84			4.80E+00	mCi/L	S	SOLIDS	RAW	Cs137	1.78E+08	1.39E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
AW103	Cs-137	8/1/84	2838A	1.402	1.18E+03	uCi/l	S	Solids	Braun	Cs-137	4.37E+07	3.44E+07	
AW103	Cs-137	8/1/84	2750B	1.415	9.22E+02	uCi/l	S	Solids	Braun	Cs-137	3.41E+07	2.68E+07	
AW104	Cs-137	11/9/84	R-3206	1.41	6.03E+02	uCi/l	G	Sludge	Braun	Cs-137	2.23E+07	1.77E+07	
SY101	Cs137	11/18/90			4.69E+02	uCi/L	T	Crust Sample	RAW	Cs137	1.74E+07	1.58E+07	
SY103	Cs137	9/1/86	PNL3SY#7		4.78E-01	mCi/L	Y	Slurry/Sludge	RAW	Cs137	1.77E+07	1.46E+07	
AN102	Cs137	11/1/91		1.74	3.95E+02	uCi/L	S	Solids	RAW	Cs137	1.46E+07	1.36E+07	
AW103	Cs137	1/1/89			2.20E+01	uCi/g	S		RAW	Cs137	1.30E+09	2.81E+06	
SY103	Cs137	9/1/86	2		4.95E-01	uCi/L	G	Sludge	RAW	Cs137	1.83E+04	1.51E+04	
AP102	Cs-137	4/29/88	R-8469		4.65E-01	uCi/l	I	Composite	Braun	Cs-137	1.72E+04	1.48E+04	
AW103	Cs137	1/1/89			1.99E+01	uCi/g	S	Water Leach	RAW	Cs137	1.18E+09	6.31E+03	
AW103	Cs137	1/1/89			2.21E+01	uCi/g	S		RAW	Cs137	1.31E+09	1.74E+01	
AW103	Cs137	1/1/89			2.45E+01	uCi/g	S	Water Leach	RAW	Cs137	1.45E+09	4.77E-02	
AW103	Cs137	1/1/89			2.49E+01	uCi/g	S		RAW	Cs137	1.47E+09	1.20E-04	
AW103	Cs137	1/1/89			2.35E+01	uCi/g	S	Water Leach	RAW	Cs137	1.39E+09	2.81E-07	
AW103	Cs137	1/1/89			2.61E+01	uCi/g	S		RAW	Cs137	1.55E+09	7.74E-10	
AW103	Cs137	1/1/89			2.35E+01	uCi/g	S	Water Leach	RAW	Cs137	1.39E+09	1.73E-12	
AW103	Cs137	1/1/89			2.56E+01	uCi/g	S		RAW	Cs137	1.52E+09	4.66E-15	
AW103	Cs137	1/1/89			2.50E+01	uCi/g	S	Water Leach	RAW	Cs137	1.48E+09	1.13E-17	
AW103	Cs137	1/1/89			9.01E+01	uCi/g	S		RAW	Cs137	5.33E+09	1.01E-19	
AW103	Cs137	1/1/89			8.48E+01	uCi/g	S	Water Leach	RAW	Cs137	5.02E+09	2.35E-22	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Double-Shell Tank Liquids [Sketch ES-VAL-CR31]
 ASA Value: 4.8E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 4.8E+07 Bq/L													
AN107	Eu154	3/6/85	RAT-AN107-1A		2690	uCi/l	P	Supernate	Braun	Eu154	9.95E+07	4.58E+07	8
AN107	Eu154	2/28/85	R-3637	1.41	2690	uCi/l	P	Supernate	Braun	Eu154	9.95E+07	4.57E+07	8
AN107	Eu154	3/6/85	RAT-AN107-1B		2610	uCi/l	P	Supernate	Braun	Eu154	9.66E+07	4.44E+07	*16
AN107	Eu154	3/4/85					P	Supernatant	Wastren	Eu154	9.66E+07	4.44E+07	
AN102	Eu154	8/1/91					P	Supernate	Wastren	Eu154	5.78E+07	4.41E+07	
AW102	Eu154	12/1/93	BOBC12	1.026	36.9	uCi/L	L	PRIMARY RESULT	TCD	Eu154	1.37E+06	1.25E+06	
AP103	Eu154	11/1/91	BOBC21	1.0027	32	uCi/L	L	PRIMARY RESULT	TCD	Eu154	1.18E+06	9.22E+05	
AP103	Eu154	11/1/91	BOBC21	1.0027	27.1	uCi/L	L	DUPLICATE RESULT	TCD	Eu154	1.00E+06	7.81E+05	
AW102	Eu154	12/1/93	BOBC12	1.026	22.6	uCi/L	L	DUPLICATE RESULT	TCD	Eu154	8.36E+05	7.68E+05	
AP103	Eu154	11/1/91	BOBC21	1.0027	24.8	uCi/L	L	PRIMARY RESULT	TCD	Eu154	9.18E+05	7.14E+05	
AW102	Eu154	12/1/93	BOBC12	1.026	21	uCi/L	L	PRIMARY RESULT	TCD	Eu154	7.77E+05	7.13E+05	
AW102	Eu154	11/18/92	R9416		21	uCi/L	U	UNKNOWN	RAW	Eu154	7.77E+05	6.57E+05	
AW106	Eu154	12/1/93	BO8VS6	1.0867	19.3	uCi/L	L	PRIMARY RESULT	TCD	Eu154	7.14E+05	6.56E+05	
AW102	Eu154	12/1/93	BOBC12	1.026	17.5	uCi/L	L	PRIMARY RESULT	TCD	Eu154	6.48E+05	5.94E+05	
AW106	Eu154	12/1/93	BO8VS6	1.0867	12.8	uCi/L	L	DUPLICATE RESULT	TCD	Eu154	4.74E+05	4.35E+05	
AW102	Eu154	12/1/93	BOBC12	1.026	8.85	uCi/L	L	PRIMARY RESULT	TCD	Eu154	3.27E+05	3.01E+05	
Minimum Plot Limit: 1.00E+05 Bq/L													
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000968	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	3.58E+04	3.18E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000968	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	3.58E+04	3.18E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000968	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	3.58E+04	3.18E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000968	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	3.58E+04	3.18E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000968	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	3.58E+04	3.18E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000895	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.94E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000895	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.94E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000895	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.94E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000895	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.94E+04	
AP101	Eu154	7/1/93	BOB2K7	1.1	0.000895	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	3.31E+04	2.94E+04	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+03	6.35E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+03	6.35E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+03	6.35E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+03	6.35E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000192	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	7.10E+03	6.35E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	6.96E+03	6.22E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	6.96E+03	6.22E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	6.96E+03	6.22E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	6.96E+03	6.22E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000188	uCi/mL	L	PRIMARY RESULT	TCD	Eu154	6.96E+03	6.22E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	
AP107	Eu154	8/1/93	BO8W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Double-Shell Tank Liquids [Sketch ES-VAL-CR31]
 ASA Value: 4.8E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AP107	Eu154	8/1/93	B08W54	1.1	0.000124	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.59E+03	4.10E+03	
AP107	Eu154	8/1/93	B08W54	1.1	0.000115	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.26E+03	3.80E+03	
AP107	Eu154	8/1/93	B08W54	1.1	0.000115	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.26E+03	3.80E+03	
AP107	Eu154	8/1/93	B08W54	1.1	0.000115	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.26E+03	3.80E+03	
AP107	Eu154	8/1/93	B08W54	1.1	0.000115	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.26E+03	3.80E+03	
AP107	Eu154	8/1/93	B08W54	1.1	0.000115	uCi/mL	L	DUPLICATE RESULT	TCD	Eu154	4.26E+03	3.80E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Europium 154 Double-Shell Tank Solids [Sketch ES-VAL-CR32]
ASA Value: 2.5E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 2.5E+08 Bq/L													
AN102	Eu154	8/1/91					G	Sludge	Wastren	Eu154	3.21E+08	2.45E+08	*
SY102	Eu154	11/1/84	R-3318B	1.61	5.69	uCi/gm	S	Supernate/Solids	Braun	Eu154	3.39E+08	1.52E+08	
SY102	Eu154	11/1/84	R-3316B	1.53	5.51	uCi/gm	S	Supernate/Solids	Braun	Eu154	3.12E+08	1.40E+08	
AW105	Eu154	5/1/90	B08W87	1.4275	7700000	dis/min/g		PRIMARY RESULT	TCD	Eu154	1.83E+08	1.27E+08	
SY102	Eu154	11/1/84	R-3317B	1.59	4.25	uCi/gm	S	Supernate/Solids	Braun	Eu154	2.50E+08	1.12E+08	
AW105	Eu154	2/24/87	T-7946	1.36	4730	uCi/l	I	Composite	Braun	Eu154	1.75E+08	9.41E+07	
AW105	Eu154	2/18/87	7946	1.36	4730	uCi/L	G	Sludge	RAW	Eu154	1.75E+08	9.40E+07	
SY102	Eu154	1/10/85	R-3316	1.54	4800	uCi/l	S	Supernate/Solids	Braun	Eu154	1.78E+08	8.07E+07	
SY102	Eu154	1/10/85	R-3316	1.54	4800	uCi/L	S	Solids	RAW	Eu154	1.78E+08	8.07E+07	
SY103	Eu154	9/1/86	12	1.6	3390	uCi/L	S	Core Segment	RAW	Eu154	1.25E+08	6.49E+07	
SY102	Eu154	10/1/88	102-SY-4B	1.8	1.5	uCi/gm	G	Sludge	Braun	Eu154	9.99E+07	6.10E+07	
SY102	Eu154	10/1/88					G	Sludge	Wastren	Eu154	9.99E+07	6.10E+07	
SY102	Eu154	2/27/90	12M HNO3		1.18	uCi/g	S	Solids	RAW	Eu154	6.99E+07	4.76E+07	
SY102	Eu154	2/27/90	6M HNO3		1.13	uCi/g	S	Solids	RAW	Eu154	6.69E+07	4.56E+07	
SY102	Eu154	2/27/90	9M HNO3		1.11	uCi/g	S	Solids	RAW	Eu154	6.57E+07	4.48E+07	
SY103	Eu154	9/1/86	7	1.54	2290	uCi/L	S	Core Segment	RAW	Eu154	8.47E+07	4.39E+07	
SY102	Eu154	2/27/90	3M HNO3		0.808	uCi/g	S	Solids	RAW	Eu154	4.78E+07	3.26E+07	
AW105	Eu154	5/1/90	B08W87	1.4275	1900000	dis/min/g	S	PRIMARY RESULT	TCD	Eu154	4.52E+07	3.13E+07	
AW105	Eu154	2/18/87	7942	1.41	1230	uCi/L	G	Sludge	RAW	Eu154	4.55E+07	2.44E+07	
AW105	Eu154	2/24/87	T-7942	1.41	1220	uCi/l	I	Composite	Braun	Eu154	4.51E+07	2.43E+07	
SY103	Eu154	9/1/86	2	1.52	1180	uCi/L	S	Core Segment	RAW	Eu154	4.37E+07	2.26E+07	
AW103	Eu154	2/27/87	7936	1.51	0.329	uCi/gm	S	Solids	Braun	Eu154	1.84E+07	9.89E+06	
AW105	Eu154	2/24/87	RAT-AW105-	1.3	466	uCi/l	G	Sludge/Composite	Braun	Eu154	1.72E+07	9.27E+06	
AW105	Eu154	2/1/87					G	Sludge	Wastren	Eu154	1.72E+07	9.20E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
AN102	Eu154	11/1/91		1.74	1.65	uCi/L	S	Solids	RAW	Eu154	6.11E+04	4.75E+04	
SY103	Eu154	9/1/86	PNL3SY#7		0.00149	mCi/L	Y	Slurry/Sludge	RAW	Eu154	5.51E+04	2.85E+04	
SY103	Eu154	9/1/86	2		0.00078	uCi/L	G	Sludge	RAW	Eu154	2.87E+01	1.48E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Double-Shell Tank Liquids [Sketch ES-VAL-CR33]
 ASA Value: 2.3E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 2.3E+05 Bq/L													
AW-105	Np237	7/1/88					P	Supernatant	Wastren	Np237	2.26E+05		*
SY102	Np237	10/1/88	102-SY-1-2		0.0013	uCi/gm	P	Supernate	Braun	Np237	5.29E+04		
SY-101	Np237	12/1/91	B0B9X3	1.2668	1.08	uCi/L	L	DUPLICATE RESULT	TCD	Np237	4.00E+04		
SY-101	Np237	12/1/91	B0BB41	1.072	1.08	uCi/L	L	PRIMARY RESULT	TCD	Np237	4.00E+04		
SY-101	Np237	12/1/91	B0B9Z7	1.1736	1.08	uCi/L	L	PRIMARY RESULT	TCD	Np237	4.00E+04		
SY-101	Np237	12/1/91	B0B9X3	1.2668	1.08	uCi/L	L	PRIMARY RESULT	TCD	Np237	4.00E+04		
AP102	Np237	4/1/93	B0B2N1	1.195	0.000465	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.72E+04		
AP102	Np237	4/1/93	B0B2T9	1.19	0.000432	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX9	1.3335	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B3D1	1.334	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX1	1.34	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX0	1.345	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX8	1.377	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX1	1.34	0.000432	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX0	1.345	0.000432	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.60E+04		
AP105	Np237	3/1/93	B0B8VX8	1.377	0.000432	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.60E+04		
AP106	Np237	3/1/93	B0B2B8	0.9965	0.000432	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.60E+04		
AP106	Np237	3/1/93	B0B2C0	0.9995	0.000418	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.55E+04		
SY-103	Np237						L		TRAC	Np237	1.47E+04		
AP105	Np237	3/1/93	B0B3C9	1.3	0.000389	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.44E+04		
AP106	Np237	3/1/93	B0B2C3	0.9925	0.000389	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.44E+04		
AP106	Np237	3/1/93	B0B2C2	0.997	0.000389	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2N1	1.195	0.000281	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.04E+04		
AP105	Np237	3/1/93	B0B8VX9	1.3335	0.000281	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.04E+04		
AP106	Np237	3/1/93	B0B2C3	0.9925	0.000281	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.04E+04		
AP106	Np237	3/1/93	B0B2C2	0.997	0.000281	uCi/mL	L	PRIMARY RESULT	TCD	Np237	1.04E+04		
AP104	Np237	3/1/88	WI-549	1.02	0.27	uCi/L	L	LIQUID	RAW	Np237	9.99E+03		
AP104	Np237	3/1/88	WI-550	1.05	0.27	uCi/L	L	LIQUID	RAW	Np237	9.99E+03		
SY-102	Np237						L		TRAC	Np237	7.83E+03		
AN106	Np237	2/19/87	R-2456	1.223	0.16	uCi/l	P	Supernate	Braun	Np237	5.92E+03		
AN106	Np237	7/21/87	R2456	1.233	0.16	uCi/L	P	SUPERNATE	RAW	Np237	5.92E+03		
AN-106	Np237	3/1/91					P	Supernatant	Wastren	Np237	5.92E+03		
SY-101	Np237	12/1/91	B0B282	1.235	0.0001278	uCi/g	L	PRIMARY RESULT	TCD	Np237	5.84E+03		
SY-101	Np237	12/1/91	B0B282	1.235	8.764E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	4.00E+03		
SY-101	Np237	12/1/91	B0B282	1.235	8.656E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	3.96E+03		
SY-101	Np237						L		TRAC	Np237	3.76E+03		
SY-101	Np237	12/1/91	B0B279	1.305	7.593E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	3.67E+03		
SY-101	Np237	12/1/91	B0B279	1.305	7.593E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	3.67E+03		
AN-101	Np237	7/1/88					P	Supernate	Wastren	Np237	3.60E+03		
SY-101	Np237	12/1/91	B0B279	1.305	7.399E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	3.57E+03		
SY-101	Np237	12/1/91	B0B279	1.305	7.399E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	3.57E+03		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Double-Shell Tank Liquids [Sketch ES-VAL-CR33]
 ASA Value: 2.3E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Np237	12/1/91	BOB282	1.235	7.792E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	3.56E+03		
SY-101	Np237	12/1/91	BOB281	1.2425	6.605E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	3.04E+03		
SY-101	Np237	12/1/91	BOB281	1.2425	5.994E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	2.76E+03		
SY-101	Np237	12/1/91	BOB280	1.3275	3.953E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	1.94E+03		
SY-101	Np237	12/1/91	BOB280	1.3275	3.953E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	1.94E+03		
SY-101	Np237	12/1/91	BOB281	1.2425	4.082E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	1.88E+03		
SY-101	Np237	12/1/91	BOB281	1.2425	4.082E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	1.88E+03		
SY-101	Np237	12/1/91	BOB280	1.3275	3.591E-05	uCi/g	L	DUPLICATE RESULT	TCD	Np237	1.76E+03		
SY-101	Np237	12/1/91	BOB280	1.3275	3.591E-05	uCi/g	L	PRIMARY RESULT	TCD	Np237	1.76E+03		
AP-103	Np237	1/1/88					P	Supernatant	Wastren		1.12E+03		
Minimum Plot Limit: 1.00E+03 Bq/L													
AW-106	Np237	8/1/88					P	Supernatant	Wastren	Np237	8.03E+02		
AW-106	Np237						L		TRAC	Np237	4.61E+02		
AP106	Np237	3/1/93	BOB2C2	0.997	0.0000071	uCi/mL	L	DUPLICATE RESULT	TCD	Np237	2.63E+02		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Double-Shell Tank Solids [Sketch ES-VAL-CR34]
 ASA Value: 2.35E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY102	Np-237	11/1/84	R-3318B	1.61	2.58E+01	uCi/gm	S	Supernate/Solids	Braun	Np237	1.54E+09		14
SY102	Np-237	11/1/84	R-3316B	1.53	2.40E+01	uCi/gm	S	Supernate/Solids	Braun	Np237	1.36E+09		14
SY102	Np-237	11/1/84	R-3317B	1.59	1.78E+01	uCi/gm	S	Supernate/Solids	Braun	Np237	1.05E+09		14
SY102	Np-237	1/10/85	R-3316	1.54	2.09E+04	uCi/l	S	Supernate/Solids	Braun	Np237	7.73E+08		14
SY102	Np237	1/10/85	R-3316	1.54	2.09E+04	uCi/L	S	Solids	RAW	Np237	7.73E+08		14
SY102	Np237	2/27/90	12M HNO3		4.86E+00	uCi/g	S	Solids	RAW	Np237	2.88E+08		14
SY-101	Np237	12/1/91	B0BB95	1.6	1.10E+00	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	6.51E+07		14
SY-101	Np237	12/1/91	B0BBC7	1.6	1.10E+00	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.51E+07		14
SY-101	Np237	12/1/91	B0BB95	1.6	1.00E+00	uCi/g	S	PRIMARY_RESULT	TCD	Np237	5.92E+07		14
SY-101	Np237	12/1/91	B0BB95	1.6	7.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.14E+07		14
SY-101	Np237	12/1/91	B0BBB5	1.6	7.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.14E+07		14
SY-101	Np237	12/1/91	B0BB95	1.6	7.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.14E+07		14
SY-101	Np237	12/1/91	B0BBB5	1.6	7.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.14E+07		14
SY-101	Np237	12/1/91	B0BBB5	1.6	7.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.14E+07		14
SY-101	Np237	12/1/91	B0BBX7	1.6	6.60E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.91E+07		14
SY-101	Np237	12/1/91	B0BBX7	1.6	6.60E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.91E+07		14
SY-101	Np237	12/1/91	B0BBR6	1.6	6.20E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.67E+07		14
SY-101	Np237	12/1/91	B0BBB5	1.6	6.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.55E+07		14
SY-101	Np237	12/1/91	B0BBD5	1.6	6.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.55E+07		14
SY-101	Np237	12/1/91	B0BBR2	1.6	5.60E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.32E+07		14
SY-101	Np237	12/1/91	B0BB41	1.6	5.38E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.18E+07		14
SY-101	Np237	12/1/91	B0B9X3	1.6	5.35E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.17E+07		14
SY-101	Np237	12/1/91	B0B8S7	1.6	5.34E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.16E+07		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	5.34E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.16E+07		14
SY-101	Np237	12/1/91	B0BB23	1.6	5.32E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.15E+07		14
SY-101	Np237	12/1/91	B0BB23	1.6	5.32E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.15E+07		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	5.31E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.14E+07		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	5.28E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.13E+07		14
SY-101	Np237	12/1/91	B0B9X3	1.6	5.22E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.09E+07		14
SY-101	Np237	12/1/91	B0BBC7	1.6	5.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	2.96E+07		14
SY-101	Np237	12/1/91	B0BBX7	1.6	5.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	2.96E+07		14
SY-101	Np237	12/1/91	B0BBC7	1.6	5.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.96E+07		14
SY-101	Np237	12/1/91	B0BBD5	1.6	5.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.96E+07		14
SY-101	Np237	12/1/91	B0BBX7	1.6	5.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.96E+07		14
SY-101	Np237	12/1/91	B0BBQ6	1.6	4.70E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.78E+07		14
SY-101	Np237	12/1/91	B0BBX7	1.6	1.40E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	8.29E+06		14
SY-101	Np237	12/1/91	B0BB23	1.6	1.33E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	7.87E+06		14
SY-101	Np237	12/1/91	B0B9X3	1.6	1.12E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.63E+06		14
SY-101	Np237	12/1/91	B0BB95	1.6	1.10E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	6.51E+06		14

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Double-Shell Tank Solids [Sketch ES-VAL-CR34]
 ASA Value: 2.35E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Np237	12/1/91	B0BB95	1.6	1.10E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.51E+06		14
SY-101	Np237	12/1/91	B0BBQ6	1.6	1.10E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.51E+06		14
SY-101	Np237	12/1/91	B0BBX7	1.6	1.10E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.51E+06		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	1.09E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.45E+06		14
SY-101	Np237	12/1/91	B0BB23	1.6	1.08E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.39E+06		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	1.06E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	6.28E+06		14
SY-101	Np237	12/1/91	B0B8S7	1.6	1.06E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.28E+06		14
SY-101	Np237	12/1/91	B0B9Z7	1.6	1.06E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	6.28E+06		14
SY-101	Np237	12/1/91	B0BBX7	1.6	1.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	5.92E+06		14
SY-101	Np237	12/1/91	B0BBR6	1.6	1.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	5.92E+06		14
SY-101	Np237	12/1/91	B0BBX7	1.6	1.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	5.92E+06		14
SY-101	Np237	12/1/91	B0B8Y6	1.53	1.00E-01	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	5.66E+06		14
SY-101	Np237	12/1/91	B0B8Y6	1.53	1.00E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	5.66E+06		14
SY-101	Np237	12/1/91	B0B281	1.244	1.07E-01	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.92E+06		14
SY-101	Np237	12/1/91	B0BB41	1.6	8.20E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.85E+06		14
SY-101	Np237	12/1/91	B0B281	1.244	9.38E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.32E+06		14
SY-101	Np237	12/1/91	B0B281	1.244	9.34E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.30E+06		14
SY-101	Np237	12/1/91	B0B281	1.244	9.31E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.29E+06		14
SY-101	Np237	12/1/91	B0BB41	1.6	7.20E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.26E+06		14
SY-101	Np237	12/1/91	B0B280	1.3305	8.46E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.16E+06		14
SY-101	Np237	12/1/91	B0BBR2	1.6	7.00E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.14E+06		14
SY-101	Np237	12/1/91	B0B282	1.235	7.54E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.45E+06		14
SY-101	Np237	12/1/91	B0B282	1.235	7.43E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.40E+06		14
SY-101	Np237	12/1/91	B0B282	1.235	7.35E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.36E+06		14
SY-101	Np237	12/1/91	B0B279	1.306	6.72E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.25E+06		14
SY-101	Np237	12/1/91	B0B279	1.306	6.67E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.22E+06		14
SY-101	Np237	12/1/91	B0B282	1.235	6.90E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.15E+06		14
SY-101	Np237	12/1/91	B0B279	1.306	5.85E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	2.83E+06		14
SY-101	Np237	12/1/91	B0B279	1.306	5.74E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.77E+06		14
SY-101	Np237	12/1/91	B0B280	1.3305	2.05E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	1.01E+06		14
SY-101	Np237	12/1/91	B0B280	1.3305	2.00E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	9.85E+05		14
SY-101	Np237	12/1/91	B0B280	1.3305	1.61E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	7.93E+05		14
SY-101	Np237	12/1/91	B0B280	1.3305	1.58E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	7.78E+05		14
Preliminary ASA Value: 5.7E+05 Bq/L													14
SY-101	Np237	12/1/91	B0B281	1.244	1.09E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	5.02E+05		14
SY-101	Np237	12/1/91	B0B282	1.235	1.07E-02	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	4.89E+05		14
SY-101	Np237	12/1/91	B0B282	1.235	1.07E-02	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.89E+05		14
SY-101	Np237	12/1/91	B0B282	1.235	9.83E-03	uCi/g	S	PRIMARY_RESULT	TCD	Np237	4.49E+05		14
SY-101	Np237	12/1/91	B0B280	1.3305	8.10E-03	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.99E+05		14

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Double-Shell Tank Solids [Sketch ES-VAL-CR34]
 ASA Value: 2.35E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Np237	12/1/91	B0B281	1.244	8.53E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.93E+05		14
SY-101	Np237	12/1/91	B0B282	1.235	8.07E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.69E+05		14
SY-101	Np237	12/1/91	B0B281	1.244	7.98E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.67E+05		14
SY-101	Np237	12/1/91	B0B280	1.3305	7.30E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.59E+05		14
SY-101	Np237	12/1/91	B0B280	1.3305	6.90E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.40E+05		14
SY-101	Np237	12/1/91	B0B279	1.306	6.29E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	3.04E+05		14
SY-101	Np237	12/1/91	B0B279	1.306	6.25E-03	uCi/g	S	PRIMARY_RESULT	TCD	Np237	3.02E+05		14
SY-101	Np237	12/1/91	B0B281	1.244	6.18E-03	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.84E+05		14
SY-101	Np237	12/1/91	B0B279	1.306	5.36E-03	uCi/g	S	PRIMARY_RESULT	TCD	Np237	2.59E+05		14
ASA Value: 2.35E+05 Bq/L													
AP102	Np237	4/1/93	B0B2M3	1.2	6.34E-03	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	2.35E+05		
SY-101	Np237	12/1/91	B0B279	1.306	4.58E-03	uCi/g	S	DUPLICATE_RESULT	TCD	Np237	2.21E+05		
SY102	Np237	10/1/88	102-SY-3C		1.30E-03	uCi/g	R	SLURRY	RAW	Np237	7.70E+04		
SY102	Np237	10/1/88	102-SY-T4C	1.52	8.10E-04	uCi/g	S	SOLIDS	RAW	Np237	4.56E+04		
SY-101	Np237	12/1/91	B0BB23	1.6	1.08E+00	uCi/L	S	DUPLICATE_RESULT	TCD	Np237	4.00E+04		
SY-101	Np237	12/1/91	B0BB23	1.6	1.08E+00	uCi/L	S	PRIMARY_RESULT	TCD	Np237	4.00E+04		
SY102	Np237	10/1/88	102-SY-4B	1.8	5.90E-04	uCi/g	S	SOLIDS	RAW	Np237	3.93E+04		
SY102	Np-237	10/1/88	102-SY-4B	1.8	5.90E-04	uCi/gm	G	Sludge	Braun	Np237	3.93E+04		
SY-102	Np237	10/1/88					G	Sludge	Wastren	Np237	3.92E+04		
AP102	Np237	4/1/93	B0B2L7	1.2	1.00E-03	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	3.70E+04		
AP102	Np237	4/1/93	B0B2M4	1.195	4.32E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.60E+04		
AP102	Np237	4/1/93	B0B2M7	1.2	4.32E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.60E+04		
AP102	Np237	4/1/93	B0B2N4	1.2	4.32E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.60E+04		
AP102	Np237	4/1/93	B0B2M6	1.205	4.32E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.60E+04		
AP102	Np237	4/1/93	B0B2L9	1.2	3.89E-04	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2M0	1.2	3.89E-04	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2M1	1.205	3.89E-04	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2L8	1.21	3.89E-04	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2L9	1.2	3.89E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2M0	1.2	3.89E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2L8	1.21	3.89E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.44E+04		
AP102	Np237	4/1/93	B0B2M5	1.19	2.81E-04	uCi/mL	S	DUPLICATE_RESULT	TCD	Np237	1.04E+04		
AP102	Np237	4/1/93	B0B2M5	1.19	2.81E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.04E+04		
AP102	Np237	4/1/93	B0B2M1	1.205	2.81E-04	uCi/mL	S	PRIMARY_RESULT	TCD	Np237	1.04E+04		
Minimum Plot Limit: 1.00E+04 Bq/L													
AN103	Np237	9/25/87	TK092587	1.56	2.55E-08	Ci/L	G	Sludge	RAW	Np237	9.44E+02		
AN-103	Np237	2/1/90					R	Slurry	Wastren	Np237	7.40E+02		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Double-Shell Tank Liquids [Sketch ES-VAL-CR35]
 ASA Value: 1.8E+06 Bq/L

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Tank Waste Characterization Sample Information													Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Value	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID			
ASA Value: 1.8E+06 Bq/L																	
AP105	Pu238	3/1/93	B08VX9	1.3335	0.000898	ug/g	L		PRIMARY RESULT	TCD	Pu238	7.71E+05	7.60E+05	22			
AP105	Pu238	3/1/93	B08VX8	1.377	0.00084	ug/g	L		DUPLICATE RESULT	TCD	Pu238	7.45E+05	7.34E+05				
AP105	Pu238	3/1/93	B08VX5	1.3375	0.000728	ug/g	L		PRIMARY RESULT	TCD	Pu238	6.27E+05	6.18E+05				
AP105	Pu238	3/1/93	B08VX8	1.377	0.000597	ug/g	L		PRIMARY RESULT	TCD	Pu238	5.29E+05	5.22E+05				
AP105	Pu238	3/1/93	B08VX4	1.1	0.000609	ug/g	L		DUPLICATE RESULT	TCD	Pu238	4.31E+05	4.25E+05				
AP105	Pu238	3/1/93	B08VX3	1.3	0.000501	ug/g	L		DUPLICATE RESULT	TCD	Pu238	4.19E+05	4.13E+05				
AP105	Pu238	3/1/93	B08VX2	1.2975	0.00025	ug/g	L		PRIMARY RESULT	TCD	Pu238	2.09E+05	2.06E+05				
AP105	Pu238	3/1/93	B08VX5	1.3375	0.000236	ug/g	L		DUPLICATE RESULT	TCD	Pu238	2.03E+05	2.00E+05				
AP105	Pu238	3/1/93	B08VX2	1.2975	0.000236	ug/g	L		DUPLICATE RESULT	TCD	Pu238	1.97E+05	1.94E+05				
AP105	Pu238	3/1/93	B08VX9	1.3335	0.000223	ug/g	L		DUPLICATE RESULT	TCD	Pu238	1.91E+05	1.89E+05				
AP105	Pu238	3/1/93	B08VX8	1.327	0.000205	ug/g	L		DUPLICATE RESULT	TCD	Pu238	1.75E+05	1.73E+05				
AP105	Pu238	3/1/93	B08VX3	1.327	0.000194	ug/g	L		PRIMARY RESULT	TCD	Pu238	1.66E+05	1.63E+05				
AP105	Pu238	3/1/93	B08VX4	1.1	0.000212	ug/g	L		PRIMARY RESULT	TCD	Pu238	1.50E+05	1.48E+05				
AP105	Pu238	3/1/93	B08VX3	1.3	0.000161	ug/g	L		PRIMARY RESULT	TCD	Pu238	1.35E+05	1.33E+05				
AP105	Pu238	3/1/93	B08VX0	1.345	0.000111	ug/g	L		PRIMARY RESULT	TCD	Pu238	9.61E+04	9.47E+04				
AP105	Pu238	3/1/93	B08VX8	1.377	0.000103	ug/g	L		PRIMARY RESULT	TCD	Pu238	9.13E+04	9.00E+04				
AP105	Pu238	3/1/93	B08VX1	1.34	0.000101	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.71E+04	8.59E+04				
AP105	Pu238	3/1/93	B08VX7	1.298	0.000103	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.61E+04	8.48E+04				
AP105	Pu238	3/1/93	B08VX0	1.345	0.0000981	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.49E+04	8.37E+04				
AP105	Pu238	3/1/93	B08VX6	1.3375	0.0000981	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.45E+04	8.33E+04				
AP105	Pu238	3/1/93	B08VX6	1.3375	0.0000962	ug/g	L		PRIMARY RESULT	TCD	Pu238	8.28E+04	8.16E+04				
AP105	Pu238	3/1/93	B08VX8	1.377	0.0000929	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.24E+04	8.12E+04				
AP105	Pu238	3/1/93	B08VX9	1.3335	0.0000936	ug/g	L		DUPLICATE RESULT	TCD	Pu238	8.07E+04	7.95E+04				
AP105	Pu238	3/1/93	B08VX1	1.34	0.0000913	ug/g	L		PRIMARY RESULT	TCD	Pu238	8.04E+04	7.92E+04				
AP105	Pu238	3/1/93	B08VX7	1.298	0.0000923	ug/g	L		PRIMARY RESULT	TCD	Pu238	7.88E+04	7.76E+04				
AP105	Pu238	3/1/93	B08VX9	1.3	0.0000899	ug/g	L		DUPLICATE RESULT	TCD	Pu238	7.71E+04	7.60E+04				
AP105	Pu238	3/1/93	B08VX9	1.3	0.0000578	ug/g	L		DUPLICATE RESULT	TCD	Pu238	7.44E+04	7.33E+04				
AP107	Pu238	8/1/93	B08W54	1.1	0.000651	uCi/mL	L		PRIMARY RESULT	TCD	Pu238	4.84E+04	4.77E+04				
AP107	Pu238	8/1/93	B08W54	1.1	0.000651	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	2.41E+04	2.38E+04				
AP107	Pu238	8/1/93	B08W54	1.1	0.000651	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	2.41E+04	2.38E+04				
AP107	Pu238	8/1/93	B08W54	1.1	0.000651	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	2.41E+04	2.38E+04				
AP107	Pu238	8/1/93	B08W54	1.1	0.000651	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	2.41E+04	2.38E+04				
Minimum Plot Limit: 1.00E+04 Bq/L																	
AP106	Pu238	3/1/93	B08B8	0.9965	0.000232	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	8.58E+03	8.46E+03				
AP106	Pu238	3/1/93	B08B8	0.9965	0.000232	uCi/mL	L		PRIMARY RESULT	TCD	Pu238	8.58E+03	8.46E+03				
AP106	Pu238	3/1/93	B08B8	0.9975	0.000207	uCi/mL	L		PRIMARY RESULT	TCD	Pu238	7.66E+03	7.55E+03				
AP106	Pu238	3/1/93	B08B8	0.997	0.000206	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	7.62E+03	7.51E+03				
AN106	Pu238	7/21/87	R2456	1.233	0.21	uCi/L	P		SUPERNATE	RAW	Pu238	7.77E+03	7.33E+03				
AP106	Pu238	3/1/93	B08B8	0.9995	0.000201	uCi/mL	L		DUPLICATE RESULT	TCD	Pu238	7.44E+03	7.33E+03				
AN106	Pu238	2/19/87	R-2456	1.223	0.21	uCi/L	P		Supernate	Braun	Pu238	7.77E+03	7.30E+03				
AP106	Pu238	3/1/93	B08B8	0.9995	0.0002	uCi/mL	L		PRIMARY RESULT	TCD	Pu238	7.40E+03	7.29E+03				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Double-Shell Tank Liquids [Sketch ES-VAL-CR35]
 ASA Value: 1.8E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AP106	Pu238	3/1/93	BOB2C3	0.9925	0.000199	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	7.36E+03	7.26E+03	
AP106	Pu238	3/1/93	BOB2C2	0.997	0.000199	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	7.36E+03	7.26E+03	
AP106	Pu238	3/1/93	BOB2C3	0.9925	0.000198	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	7.33E+03	7.22E+03	
AP106	Pu238	3/1/93	BOB2C5	0.994	0.000193	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	7.14E+03	7.04E+03	
AP106	Pu238	3/1/93	BOB2B9	0.9975	0.00019	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	7.03E+03	6.93E+03	
AP106	Pu238	3/1/93	BOB2C5	0.994	0.000188	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	6.96E+03	6.86E+03	
AP102	Pu238	4/1/93	BOB2T9	1.19	0.000125	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	4.63E+03	4.56E+03	
AP106	Pu238	3/1/93	BOB2C1	0.996	0.000105	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	3.89E+03	3.83E+03	
AP106	Pu238	3/1/93	BOB2C1	0.996	0.0000901	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	3.33E+03	3.29E+03	
AP106	Pu238	3/1/93	BOB2G2	0.9965	0.0000207	uCi/mL	L	PRIMARY RESULT	TCD	Pu238	7.66E+02	7.55E+02	
AP106	Pu238	3/1/93	BOB2G2	0.9965	0.0000188	uCi/mL	L	DUPLICATE RESULT	TCD	Pu238	6.96E+02	6.86E+02	
SY-103	Pu238						L		TRAC	Pu238		2.20E+02	
SY-102	Pu238						L		TRAC	Pu238		1.18E+02	
SY-101	Pu238						L		TRAC	Pu238		6.14E+01	
AW-106	Pu238						L		TRAC	Pu238		3.90E+01	
AW103	Pu238	9/13/90	COMP475		0.00036	nCi/g	P	SUPERNATANT	RAW	Pu238	1.47E+01	1.42E+01	
AW103	Pu238	1/1/90					P	Supernatant	Wastren	Pu238	4.22E+00	4.06E+00	
AW103	Pu238	9/13/90			0.000088	nCi/g	P	SUPERNATANT	RAW	Pu238	3.58E+00	3.46E+00	
AW103	Pu238	1/23/90	RAT-AW103-1B		8.8E-08	uCi/gm	P	Supernate	Braun	Pu238	3.58E+00	3.44E+00	
AW-103	Pu238						L		TRAC	Pu238		4.65E-08	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 238 Double-Shell Tank Solids [Sketch ES-VAL-CR36]
ASA Value: 7.25E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 7.25E+07 Bq/L													
SY102	Pu238	10/1/88	102-SY-3C	1.52	1.35	uCi/g	R	SLURRY	RAW	Pu238	7.59E+07	7.25E+07	*
SY102	Pu238	10/1/88	102-SY-1-2		1.35	uCi/gm	P	Supernate	Braun	Pu238	5.49E+07	5.23E+07	
SY102	Pu238	10/1/88	102-SY-T4C	1.52	0.788	uCi/g	S	SOLIDS	RAW	Pu238	4.43E+07	4.22E+07	
AW105	Pu238	2/24/87	T-7946	1.36	0.09	uCi/gm	I	Composite	Braun	Pu238	4.53E+06	4.26E+06	
AW103	Pu238	9/13/90	SRS2		69.6	nCi/g	S	SOLIDS	RAW	Pu238	4.12E+06	3.98E+06	
AW105	Pu238	2/24/87	T-7940	1.43	0.077	uCi/gm	I	Composite	Braun	Pu238	4.07E+06	3.83E+06	
AW103	Pu238	1/23/90	RAT-AW103-1	1.75	0.0607	uCi/gm	S	Solids	Braun	Pu238	3.93E+06	3.78E+06	
AW103	Pu238	1/1/90					G	Sludge	Wastren	Pu238	3.92E+06	3.77E+06	
AW103	Pu238	9/13/90			60.7	nCi/g	Y	SLURRY/SLUDGE	RAW	Pu238	3.59E+06	3.47E+06	
AW103	Pu238	9/13/90	AS1		59.8	nCi/g	S	SOLIDS	RAW	Pu238	3.54E+06	3.42E+06	
AW105	Pu238	2/1/87					G	Sludge	Wastren	Pu238	3.50E+06	3.29E+06	
AW103	Pu238	9/13/90	SRS1		59	nCi/g	S	SOLIDS	RAW	Pu238	3.49E+06	3.38E+06	
AW103	Pu238	9/13/90	AS2		57.7	nCi/g	S	SOLIDS	RAW	Pu238	3.42E+06	3.30E+06	
AW105	Pu238	2/24/87	RAT-AW105-1	1.3	0.0691	uCi/gm	G	Sludge/Composite	Braun	Pu238	3.32E+06	3.12E+06	
AW103	Pu238	9/13/90	AS3		54.5	nCi/g	S	SOLIDS	RAW	Pu238	3.23E+06	3.12E+06	
AW105	Pu238	2/24/87	T-7942	1.41	0.06	uCi/gm	I	Composite	Braun	Pu238	3.13E+06	2.94E+06	
AW103	Pu238	9/13/90	COMP475		44	nCi/g	S	SOLIDS	RAW	Pu238	2.60E+06	2.52E+06	
SY102	Pu238	10/1/88	102-SY-4B	1.8	0.037	uCi/gm	G	Sludge	Braun	Pu238	2.46E+06	2.35E+06	
SY102	Pu238	10/1/88					G	Sludge	Wastren	Pu238	2.46E+06	2.34E+06	
SY102	Pu238	10/1/88	102-SY-4B	1.8	0.037	uCi/g	S	SOLIDS	RAW	Pu238	2.46E+06	2.35E+06	
AW103	Pu238	9/13/90	AS4		41	nCi/g	S	SOLIDS	RAW	Pu238	2.43E+06	2.35E+06	
AW103	Pu238	9/13/90	SRS3		39.3	nCi/g	S	SOLIDS	RAW	Pu238	2.33E+06	2.25E+06	
AW103	Pu238	9/13/90	SRS4		33	nCi/g	S	SOLIDS	RAW	Pu238	1.95E+06	1.89E+06	
AW105	Pu238	2/24/87	T-7941	1.34	0.033	uCi/gm	I	Composite	Braun	Pu238	1.64E+06	1.54E+06	
AW103	Pu238	1/23/90	RAT-AW103-1C		0.024	uCi/gm	S	Solids	Braun	Pu238	1.42E+06	1.37E+06	
AW105	Pu238	2/24/87	T-7937	1.17	0.021	uCi/gm	I	Composite	Braun	Pu238	9.09E+05	8.54E+05	
AW103	Pu238	9/13/90	ASC		8.22	nCi/g	S	SOLIDS	RAW	Pu238	4.87E+05	4.70E+05	
Minimum Plot Limit: 1.00E+05 Bq/L													
AN103	Pu238	2/1/90					R	Slurry	Wastren	Pu238	3.63E+04	3.49E+04	
AP102	Pu238	4/1/93	BOB2M2	1.2	0.000163	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	6.03E+03	5.95E+03	
AP102	Pu238	4/1/93	BOB2M3	1.2	0.00015	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	5.55E+03	5.47E+03	
AP102	Pu238	4/1/93	BOB2M1	1.205	0.000123	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	4.55E+03	4.49E+03	
AP102	Pu238	4/1/93	BOB2M5	1.19	0.000122	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	4.51E+03	4.45E+03	
AP102	Pu238	4/1/93	BOB2M0	1.2	0.000111	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	4.11E+03	4.05E+03	
AP102	Pu238	4/1/93	BOB2L7	1.2	0.0001	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	3.70E+03	3.65E+03	
AP102	Pu238	4/1/93	BOB2M4	1.195	9.88E-05	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	3.66E+03	3.61E+03	
AP102	Pu238	4/1/93	BOB2L9	1.2	9.87E-05	uCi/mL	S	DUPLICATE RESULT	TCD	Pu238	3.65E+03	3.60E+03	
SY-102	Pu238				2.88E-06	g-moles	S		TRAC	Pu238	1.16E+03	1.04E+03	
AW103	Pu238	9/12/90	COMP610		24	nCi/L	S	SOLIDS	RAW	Pu238	8.88E+02	8.58E+02	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Liquids [Sketch ES-VAL-CR37]
 ASA Value: 7.65E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY101	Pu	4/28/77		1.389	2.72E+01	g/L	L		RAW	Pu239/240	7.17E+10		19
AW102	Pu239/240	2/14/86	T-6304	1.43	2.36E+00	g/L	L	FEED	RAW	Pu239/240	6.22E+09		13
SY102	Pu-239	10/1/88	102-SY-1-2		9.73	uCi/gm	P	Supernate	Braun	Pu239/240	3.96E+08		16
ASA Value: 7.65E+06 Bq/L													
AW103	Pu	4/9/88	T-8200	1.04	0.0029	gm/l	P	Supernate	Braun	Pu239/240	7.65E+06		*
AW103	Pu	4/10/88			2.90E-03	g/l	L	No solids	RAW	Pu239/240	7.64E+06		*
AW103	Pu	4/9/88	T-8200	1.04	2.90E-03	g/l	L	No solids	RAW	Pu239/240	7.64E+06		*
AW101	Pu239/240	6/26/86	T-686	1.31	2.29E-03	g/L	U	UNKNOWN	RAW	Pu239/240	6.03E+06		
AN107	Pu-239/240	2/28/85	R-3638	1.35	122	uCi/l	L	Liquor	Braun	Pu239/240	4.51E+06		
Preliminary ASA Value: 4.33E+06 Bq/L													
AN107	Pu-239/240	2/28/85	R-3637	1.41	108	uCi/l	P	Supernate	Braun	Pu239/240	4.00E+06		
AN-107	Pu239/240	3/1/85					P	Supernatant	Wastren	Pu239/240	3.70E+06		
AW102	Pu	4/20/88	T-8435	1.04	0.001011	gm/l	P	Supernate	Braun	Pu239/240	2.67E+06		
AN-102	Pu239/240	8/1/91					P	Supernate	Wastren	Pu239/240	2.60E+06		
AW103	Pu	6/1/84	202107A		60	uCi/l	P	Supernate	Braun	Pu239/240	2.22E+06		
AW105	Pu	8/17/88	T-805	1.01	0.0004938	gm/l	L	Liquor	Braun	Pu239/240	1.30E+06		
AW105	Pu	8/17/88			4.94E-04	g/L	P	Supernatant	Wastren	Pu239/240	1.30E+06		
AW105	Pu	1/1/85	R-4036	0.974	31.2	uCi/l	L	Liquor	Braun	Pu239/240	1.15E+06		
AW105	Pu	1/1/85	R-4037	0.974	31.2	uCi/l	L	Liquor	Braun	Pu239/240	1.15E+06		
AW-105	Pu239/240	7/1/88					P	Supernatant	Wastren	Pu239/240	1.12E+06		
SY101	Pu-239/240	5/30/86	R-6395	1.17	22.9	uCi/l	P	Supernate	Braun	Pu239/240	8.47E+05		
SY101	Pu-239/240	5/30/86	R-6395	1.29	22.9	uCi/l	P	Supernate	Braun	Pu239/240	8.47E+05		
AW103	Pu239/240	10/13/87	T-3328		2.22E+01	uCi/L	P	SUPERNATANT	RAW	Pu239/240	8.21E+05		
SY-101	Pu239/240	Dec-91	BOBB62	1.1	0.018	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	7.33E+05		
SY-101	Pu239/240	Dec-91	BOBB62	1.1	0.017	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	6.92E+05		
SY-101	Pu239/240	Dec-91	BOBB62	1.1	0.014	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	5.70E+05		
AW102	Pu239/240	7/30/85	R-5898	1.14	1.47E+01	uCi/L	L	LIQUID	RAW	Pu239/240	5.44E+05		
SY103	Pu	5/28/80	T-828	1.374	2.00E-04	g/L	L		RAW	Pu239/240	5.27E+05		
SY103	Pu	5/28/80	T-827	1.389	1.80E-04	g/L	L		RAW	Pu239/240	4.74E+05		
AW101	Pu239/240	6/23/86	T-621	1.44	1.69E-04	g/L	U	UNKNOWN	RAW	Pu239/240	4.45E+05		
AN104	Pu	7/2/84			1.68E-04	g/L	P	Supernatant	Wastren	Pu239/240	4.43E+05		
AW105	Pu	4/5/88	T-7966	1.008	0.000157	gm/l	P	Supernate	Braun	Pu239/240	4.14E+05		
AN103	Pu	7/2/84	R-9991	1.473	1.56E-04	g/l	L		RAW	Pu239/240	4.11E+05		
AN101	Pu239/240	12/19/90	R-8520	1.15	1.05E+01	uCi/L	O	OTHER	RAW	Pu239/240	3.87E+05		
AN-104	Pu239/240	7/1/84					P	Supernatant	Wastren	Pu239/240	3.81E+05		
SY102	Pu-239/240	11/1/84	R-3318A	1.42	9.27	uCi/l	P	Supernate	Braun	Pu239/240	3.43E+05		
AN103	Pu	1/25/85	R-3645	1.35	1.26E-04	g/l	L		RAW	Pu239/240	3.32E+05		
AN103	Pu	1/25/85	(R-3761)	1.49	1.24E-04	g/l	L		RAW	Pu239/240	3.27E+05		
AN103	Pu	1/25/85	R-3644	1.36	1.23E-04	g/l	L		RAW	Pu239/240	3.24E+05		
SY102	Pu-239/240	11/1/84	R-3317A	1.44	7.06	uCi/l	P	Supernate	Braun	Pu239/240	2.61E+05		
AN103	Pu	1/25/85	(R-3760)	1.41	9.03E-05	g/l	L		RAW	Pu239/240	2.38E+05		
SY102	Pu	10/5/84	R-3037	1.03	3.24	uCi/l	P	Supernate	Braun	Pu239/240	1.20E+05		
SY102	Pu	10/5/84	R-3038	1.06	3.05	uCi/l	P	Supernate	Braun	Pu239/240	1.13E+05		
SY102	Pu-239/240	11/1/84	R-3316A	1.41	1.92	uCi/l	P	Supernate	Braun	Pu239/240	7.10E+04		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Liquids [Sketch ES-VAL-CR37]
 ASA Value: 7.65E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AN101	Pu	3/27/85	R-3963	1.02	0.0000257	gm/l	P	Supernate	Braun	Pu239/240	6.78E+04		
AW101	Pu239/240	6/26/86		1.49	2.04E-05	g/L	F	FILTRATE	RAW	Pu239/240	5.37E+04		
AW102	Pu239/240	11/18/92	R9417		1.29E+00	uCi/L	U	UNKNOWN	RAW	Pu239/240	4.77E+04		
AW102	Pu239/240	Dec-93	BOBC12	1.026	1.29	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	4.77E+04		
AW103	Pu-239/240	8/1/84	2750		1.28	uCi/l	P	Supernate	Braun	Pu239/240	4.74E+04		
SY-103	Pu239/240	7/1/87					P	Supernatant	Wastren	Pu239/240	4.63E+04		
AW-101	Pu239/240	6/1/90					P	Supernatant	Wastren	Pu239/240	4.26E+04		
AW101	Pu239/240	7/2/86	T-882	1.32	1.44E-05	g/L	U	UNKNOWN	RAW	Pu239/240	3.79E+04		
SY102	Pu	4/24/81		1.148	1.35E-05	g/L	L		RAW	Pu239/240	3.56E+04		
AW101	Pu239/240	6/30/86		1.54	1.26E-05	g/L	F	FILTRATE	RAW	Pu239/240	3.32E+04		
SY102	Pu	4/15/81		1.131	1.14E-05	g/L	L		RAW	Pu239/240	3.00E+04		
AW101	Pu239/240	7/2/86		1.5	1.07E-05	g/L	F	FILTRATE	RAW	Pu239/240	2.82E+04		
SY103	Pu239/240	5/10/88	11		7.20E-01	uCi/L	P	Supernatant	RAW	Pu239/240	2.66E+04		
SY103	Pu239/240	5/10/88	6		6.40E-01	uCi/L	P	Supernatant	RAW	Pu239/240	2.37E+04		
AW103	Pu-239/240	8/1/84	2836		0.64	uCi/l	P	Supernate	Braun	Pu239/240	2.37E+04		
AW101	Pu239/240	7/6/86	T-959	1.23	8.96E-06	g/L	U	UNKNOWN	RAW	Pu239/240	2.36E+04		
AN101	Pu	7/4/88	T-672	1.2563	7.19E-06	g/l	L		RAW	Pu239/240	1.89E+04		
AN101	Pu	7/4/88			7.19E-06	g/L	P	Supernate	Wastren	Pu239/240	1.89E+04		
AW101	Pu239/240	6/23/86		1.36	6.25E-06	g/L	F	FILTRATE	RAW	Pu239/240	1.65E+04		
AN-101	Pu239/240	7/1/88					P	Supernate	Wastren	Pu239/240	1.64E+04		
AN-106	Pu239/240	3/1/91					P	Supernatant	Wastren	Pu239/240	1.63E+04		
AN106	Pu239/240	7/21/87	R2456	1.233	4.40E-01	uCi/L	P	SUPERNATE	RAW	Pu239/240	1.63E+04		
AN106	Pu-239/240	2/19/87	R-2456	1.223	0.44	uCi/l	P	Supernate	Braun	Pu239/240	1.63E+04		
AW101	Pu239/240	6/30/86	T-812	1.13	5.62E-06	g/L	U	UNKNOWN	RAW	Pu239/240	1.48E+04		
SY-101	Pu239/240	Dec-91	BOB282	1.235	0.0003224	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	1.47E+04		
AW106	Pu	8/7/88	T-1621	1.241	0.0000044	gm/l	P	Supernate	Braun	Pu239/240	1.16E+04		
AW106	Pu	8/7/88			4.40E-06	g/L	P	Supernatant	Wastren	Pu239/240	1.16E+04		
SY-101	Pu239/240	Dec-91	BOB282	1.235	0.0002219	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	1.01E+04		
Minimum Plot Limit: 1.00E+04 Bq/L													
AW-106	Pu239/240	8/1/88					P	Supernatant	Wastren	Pu239/240	9.99E+03		
AW102	Pu239/240	2/10/86	T-5580	1.37	2.64E-06	g/L	L	FEED	RAW	Pu239/240	6.95E+03		
AW102	Pu239/240	2/13/86	T-5582	1.45	2.46E-06	g/L	L	FEED	RAW	Pu239/240	6.48E+03		
SY101	Pu	6/11/80	T-1227	1.1057	2.43E-06	gm/l	P	Supernate	Braun	Pu239/240	6.41E+03		
SY101	Pu	6/11/80		1.1057	2.43E-06	g/L	L		RAW	Pu239/240	6.40E+03		
AW102	Pu239/240	2/11/86	T-5581	1.43	2.34E-06	g/L	L	FEED	RAW	Pu239/240	6.16E+03		
AW103	Pu239/240	12/11/88	R-4345		1.60E-01	uCi/L	L	NO SOLIDS	RAW	Pu239/240	5.92E+03		
SY-101	Pu239/240	5/1/91					L	Liquid	Wastren	Pu239/240	5.40E+03		
SY-101	Pu239/240	5/1/91					L	Liquid	Wastren	Pu239/240	5.40E+03		
AP106	Pu239/240	Mar-93	BOB2C3	0.9925	0.000136	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	5.03E+03		
AN101	Pu	3/27/85	T-2832		1.90E-06	g/l	L		RAW	Pu239/240	5.01E+03		
AP106	Pu239/240	Mar-93	BOB2C2	0.997	0.000135	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	5.00E+03		
AP106	Pu239/240	Mar-93	BOB2C0	0.9995	0.000133	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	4.92E+03		
AP106	Pu239/240	Mar-93	BOB2C2	0.997	0.000132	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	4.88E+03		
SY-101	Pu239/240	Dec-91	BOB282	1.235	0.0001061	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	4.85E+03		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Liquids [Sketch ES-VAL-CR37]
 ASA Value: 7.65E+06 Bq/L

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Tank Waste Characterization Sample Information									Radionuclide Information				ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Pu239/240	Dec-91	BOB282	1.235	0.0001059	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	4.84E+03		
AW105	Pu-239/240	5/1/86	RAT-AW105-2	1.079	0.000107	uCi/gm	P	Supernate	Braun	Pu239/240	4.27E+03		
AP106	Pu239/240	Mar-93	BOB2C1	0.996	0.000106	uCi/mL	L	PRIMARY RESULT	TCD	Pu239/240	3.92E+03		
SY-102	Pu239/240	6/1/89					P	Supernatant	Wastren	Pu239/240	3.89E+03		
SY-101	Pu239/240	Dec-91	BOB280	1.3275	7.625E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	3.75E+03		
AW106	Pu239/240	Dec-93	BO8VS6	1.08667	0.0998	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	3.69E+03		
AW106	Pu239/240	Dec-93	BO8VS6	1.08667	0.0979	uCi/L	L	DUPLICATE RESULT	TCD	Pu239/240	3.62E+03		
SY-101	Pu239/240	Dec-91	BOB280	1.3275	7.00E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.44E+03		
SY-101	Pu239/240	Dec-91	BOB9Z7	1.17357	0.09	uCi/L	L	DUPLICATE RESULT	TCD	Pu239/240	3.33E+03		
SY-101	Pu239/240	Dec-91	BOB280	1.3275	6.636E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.26E+03		
SY-101	Pu239/240	Dec-91	BOB280	1.3275	6.615E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	3.25E+03		
SY-101	Pu239/240	Dec-91	BOB9Z7	1.17357	0.086	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	3.18E+03		
SY-101	Pu239/240	Dec-91	BOB279	1.305	6.52E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	3.15E+03		
AW105	Pu-239	5/1/86	RAT-AW105-2	1.079	0.0000779	uCi/gm	P	Supernate	Braun	Pu239/240	3.11E+03		
SY-101	Pu239/240	Dec-91	BOB281	1.2425	6.697E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.08E+03		
SY-101	Pu239/240	Dec-91	BOB281	1.2425	6.64E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.05E+03		
AW102	Pu239/240	11/18/92	R9415		7.78E-02	uCi/L	U	UNKNOWN	RAW	Pu239/240	2.88E+03		
AW102	Pu239/240	Dec-93	BOBC12	1.026	0.0778	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	2.88E+03		
SY-101	Pu239/240	Dec-91	BOB279	1.305	5.76E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	2.78E+03		
SY-101	Pu239/240	Dec-91	BOB281	1.2425	5.859E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	2.69E+03		
SY-101	Pu239/240	Dec-91	BOB281	1.2425	5.83E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	2.68E+03		
AP102	Pu239/240	Apr-93	BOB2N4	1.21	0.0000688	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	2.55E+03		
SY-101	Pu239/240	Dec-91	BOB9Z7	1.17357	0.069	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	2.55E+03		
AP102	Pu239/240	Apr-93	BOB2T9	1.19	0.0000669	uCi/mL	L	DUPLICATE RESULT	TCD	Pu239/240	2.48E+03		
AP104	Pu239/240	7/10/87			6.67E-02	uCi/L	O	OTHER	RAW	Pu239/240	2.47E+03		
AP104	Pu239/240	8/5/87	T-513		6.67E-02	uCi/L	O	OTHER	RAW	Pu239/240	2.47E+03		
SY-101	Pu239/240	Dec-91	BOB279	1.305	5.12E-05	uCi/g	L	DUPLICATE RESULT	TCD	Pu239/240	2.47E+03		
AP104	Pu-239/240	7/10/87	T-513		0.06669	uCi/l	P	Supernate	Braun	Pu239/240	2.47E+03		
SY-101	Pu239/240	Dec-91	BOB279	1.305	4.66E-05	uCi/g	L	PRIMARY RESULT	TCD	Pu239/240	2.25E+03		
SY-101	Pu239/240	Dec-91	BOB9X3	1.26675	0.047	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	1.74E+03		
SY-101	Pu239/240	Dec-91	BOB9X3	1.26675	0.046	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	1.70E+03		
SY102	Pu-239/240	6/1/88	RAT-SY102-1		0.044	uCi/l	P	Supernate	Braun	Pu239/240	1.63E+03		
AW102	Pu239/240	11/18/92	R9418		4.03E-02	uCi/L	U	UNKNOWN	RAW	Pu239/240	1.49E+03		
AW102	Pu239/240	Dec-93	BOBC12	1.026	0.0403	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	1.49E+03		
SY-101	Pu239/240	Dec-91	BOB9X3	1.26675	0.038	uCi/L	L	DUPLICATE RESULT	TCD	Pu239/240	1.41E+03		
AW102	Pu239/240	11/18/92	R9416		3.69E-02	uCi/L	U	UNKNOWN	RAW	Pu239/240	1.37E+03		
AW102	Pu239/240	Dec-93	BOBC12	1.026	0.0369	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	1.37E+03		
AW102	Pu239/240	Dec-93	BOBC12	1.026	0.0367	uCi/L	L	DUPLICATE RESULT	TCD	Pu239/240	1.36E+03		
AW102	Pu	4/20/88	T-1521	1.16	4.28E-07	gm/l	P	Supernate	Braun	Pu239/240	1.13E+03		
AW102	Pu	4/20/88			4.28E-07	g/L	P	Supernatant	Wastren	Pu239/240	1.13E+03		
AP103	Pu-239/240	1/30/88	RAT-AP103-3	0.9781	0.0282	uCi/l	P	Supernate	Braun	Pu239/240	1.04E+03		
AP-103	Pu239/240	1/1/88					P	Supernatant	Wastren	Pu239/240	1.04E+03		
AW103	Pu239/240	1/29/88	T-5959		2.82E-02	uCi/L	P	SUPERNATANT	RAW	Pu239/240	1.04E+03		
AW-102	Pu239/240	8/1/88					P	Supernatant	Wastren	Pu239/240	9.73E+02		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Liquids (Sketch ES-VAL-CR37)
 ASA Value: 7.65E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP105	Pu239/240	Mar-93	B0B3C9	1.3	0.000212	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	7.27E+02		
AP104	Pu239/240	5/12/87	T-8530		1.94E-02	uCi/L	L	NO SOLIDS	RAW	Pu239/240	7.18E+02		
AP104	Pu	4/22/87	T-8530		0.0194	uCi/l	P	Supernate	Braun	Pu239/240	7.18E+02		
AN101	Pu	7/4/88	T-671	9.66E-01	2.58E-07	g/l	L		RAW	Pu239/240	6.80E+02		
AP105	Pu239/240	Mar-93	B08VX9	1.3335	0.000186	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	6.54E+02		
AP105	Pu239/240	Mar-93	B0B3C8	1.327	0.000183	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	6.41E+02		
AP105	Pu239/240	Mar-93	B0B3C8	1.327	0.000179	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	6.27E+02		
AP105	Pu239/240	Mar-93	B0B3C9	1.3	0.000182	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	6.24E+02		
AP105	Pu239/240	Mar-93	B08VX7	1.298	0.00018	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	6.16E+02		
AP105	Pu239/240	Mar-93	B08VX7	1.298	0.000179	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	6.13E+02		
AN106	Pu	11/28/83	8501		2.32E-07	gm/l	P	Supernate	Braun	Pu239/240	6.12E+02		
AP105	Pu239/240	Mar-93	B08VX3	1.3	0.000175	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	6.00E+02		
AP105	Pu239/240	Mar-93	B08VX1	1.34	0.000162	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	5.73E+02		
AP105	Pu239/240	Mar-93	B08VX5	1.3375	0.000161	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.68E+02		
AP105	Pu239/240	Mar-93	B0B3C9	1.3	0.000164	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.62E+02		
AP105	Pu239/240	Mar-93	B08VX3	1.3	0.000163	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	5.59E+02		
AP105	Pu239/240	Mar-93	B08VX1	1.34	0.000156	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.51E+02		
AP105	Pu239/240	Mar-93	B0B3C9	1.3	0.00016	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.49E+02		
AP105	Pu239/240	Mar-93	B08VX2	1.2975	0.00016	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.48E+02		
AP105	Pu239/240	Mar-93	B08VX9	1.3335	0.000154	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.42E+02		
AP105	Pu239/240	Mar-93	B08VX9	1.3335	0.000154	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	5.42E+02		
AP105	Pu239/240	Mar-93	B08VX2	1.2975	0.000157	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	5.37E+02		
AP105	Pu239/240	Mar-93	B08VX0	1.345	0.00015	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.32E+02		
AP105	Pu239/240	Mar-93	B08VX9	1.3335	0.000149	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.24E+02		
AP105	Pu239/240	Mar-93	B08VX0	1.345	0.000145	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	5.14E+02		
AP105	Pu239/240	Mar-93	B08VX6	1.3375	0.000144	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	5.08E+02		
AP105	Pu239/240	Mar-93	B08VX8	1.377	0.000137	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	4.98E+02		
AN106	Pu	11/28/83	8500		1.87E-07	gm/l	P	Supernate	Braun	Pu239/240	4.93E+02		
AP105	Pu239/240	Mar-93	B08VX5	1.3375	0.000134	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	4.73E+02		
AP105	Pu239/240	Mar-93	B08VX8	1.377	0.00013	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	4.72E+02		
AP105	Pu239/240	Mar-93	B08VX8	1.377	0.00013	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	4.72E+02		
AP105	Pu239/240	Mar-93	B08VX8	1.377	0.000129	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	4.69E+02		
AW103	Pu239/240	9/13/90	COMP475		6.00E-03	nCi/g	P	SUPERNATANT	RAW	Pu239/240	3.55E+02		
AP103	Pu	1/30/88	RAT-AP103-3	0.9781	1.33E-07	gm/l	P	Supernate	Braun	Pu239/240	3.51E+02		
AP103	Pu	1/30/88	R-7370		1.33E-07	g/l	L		RAW	Pu239/240	3.50E+02		
AP105	Pu239/240	Mar-93	B08VX6	1.3375	0.0000966	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	3.41E+02		
AP105	Pu239/240	Mar-93	B08VX4	1.1	0.000114	ug/g	L	DUPLICATE RESULT	TCD	Pu239/240	3.31E+02		
AP105	Pu239/240	Mar-93	B08VX4	1.1	0.000102	ug/g	L	PRIMARY RESULT	TCD	Pu239/240	2.96E+02		
AP103	Pu239/240	Nov-91	B0BC21	1.0027	0.00697	uCi/L	L	DUPLICATE RESULT	TCD	Pu239/240	2.58E+02		
AP103	Pu239/240	Nov-91	B0BC21	1.0027	0.00697	uCi/L	L	PRIMARY RESULT	TCD	Pu239/240	2.58E+02		
AP-104	Pu239/240	3/1/88					P	Supernatant	Wastren	Pu239/240	1.18E+02		
AW-103	Pu239/240	1/1/90					P	Supernatant	Wastren	Pu239/240	5.77E+01		
AP104	Pu-239/240	3/1/88	RAT-AP104-1A	1.03	0.00154	uCi/l	P	Supernate	Braun	Pu239/240	5.70E+01		
AW103	Pu-239/240	1/23/90	RAT-AW103-1B		0.0000012	uCi/gm	P	Supernate	Braun	Pu239/240	4.88E+01		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Liquids [Sketch ES-VAL-CR37]
 ASA Value: 7.65E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW103	Pu239/240	9/13/90			1.20E-03	nCi/g	P	SUPERNATANT	RAW	Pu239/240	4.88E+01		
AP104	Pu239/240	3/1/88	WI-550	1.05	1.05E-03	uCi/L	L	LIQUID	RAW	Pu239/240	3.89E+01		
AW105	Pu	8/17/88			4.94E-04		P	Supernatant	Wastren	Pu239/240	3.52E+01		
AP104	Pu-239/240	3/1/88	RAT-AP104-1B	1.01	0.000941	uCi/l	P	Supernate	Braun	Pu239/240	3.48E+01		
AP104	Pu239/240	3/1/88	WI-549	1.02	8.32E-04	uCi/L	L	LIQUID	RAW	Pu239/240	3.08E+01		
AW101	Pu239/240	7/21/87			8.20E-01	nCi/L	P	SUPERNATANT	RAW	Pu239/240	3.03E+01		
AN104	Pu	7/2/84			1.68E-04		P	Supernatant	Wastren	Pu239/240	1.20E+01		
SY-103	Pu239						L		TRAC	Pu239/240	5.63E+00		
SY-102	Pu239						L		TRAC	Pu239/240	3.01E+00		
SY-101	Pu239						L		TRAC	Pu239/240	1.31E+00		
AW101	Pu239/240	11/14/85	T-2641	1.01	3.04E-05	uCi/L	L	LIQUID	RAW	Pu239/240	1.12E+00		
AN101	Pu	7/4/88			7.19E-06		P	Supernate	Wastren	Pu239/240	5.13E-01		
AW-106	Pu239						L		TRAC	Pu239/240	4.67E-01		
AW101	Pu239/240	1/13/86	R-7694	1.18	9.40E-06	uCi/L	U	UNKNOWN	RAW	Pu239/240	3.48E-01		
AW106	Pu	8/7/88			4.40E-06		P	Supernatant	Wastren	Pu239/240	3.14E-01		
AW101	Pu239/240	3/30/86	T-7698	0.993	1.03E-06	uCi/L	L		RAW	Pu239/240	3.81E-02		
AW102	Pu	4/20/88			4.28E-07		P	Supernatant	Wastren	Pu239/240	3.05E-02		
AW101	Pu239/240	3/30/86	T-7697	0.997	1.34E-08	uCi/L	L		RAW	Pu239/240	4.96E-04		
AW-103	Pu239						L		TRAC	Pu239/240	1.15E-10		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
 ASA Value: 1.57E+09 Bq/L

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Tank Waste Characterization Sample Information													
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW103	Pu239/240	12/11/88	R-4346		8.60E+01	uCi/g	S	SOLIDS	RAW	Pu239/240	5.09E+09		13
AN102	Pu	3/14/85			1.05E+00	g/L	G	Sludge	Wastren	Pu239/240	2.77E+09		13
AN102	Pu	3/14/85	R-3640		0.06	wt. %	S	Solids	Braun	Pu239/240	2.53E+09		13
ASA Value: 1.57E+09 Bq/L													
SY102	Pu239/240	3/23/89			2.65E+01	uCi/gm	S	Solids	RAW	Pu239/240	1.57E+09		*
SY102	Pu239	10/1/88	102-SY-3C		9.73	uCi/g	R	SLURRY	RAW	Pu239/240	5.76E+08		
SY102	Pu-239/240	11/1/84	R-3316B	1.53	7.55	uCi/gm	S	Supernate/Solids	Braun	Pu239/240	4.27E+08		
SY102	Pu	1/10/85	R-3316	1.54	6580	uCi/l	S	Supernate/Solids	Braun	Pu239/240	2.43E+08		
SY102	Pu239	10/1/88	102-SY-T4C	1.52	2.82	uCi/g	S	SOLIDS	RAW	Pu239/240	1.59E+08		
SY102	Pu-239/240	11/1/84	R-3318B	1.61	2.61	uCi/gm	S	Supernate/Solids	Braun	Pu239/240	1.55E+08		
SY102	Pu-239/240	11/1/84	R-3317B	1.59	2.12	uCi/gm	S	Supernate/Solids	Braun	Pu239/240	1.25E+08		
AW103	Pu239/240	1/1/89			2.05E+03	nCi/g	S		RAW	Pu239/240	1.21E+08		
AW103	Pu239/240	1/1/89			1.78E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	1.05E+08		
AW103	Pu239/240	1/1/89			1.68E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	9.95E+07		
AW103	Pu239/240	1/1/89			1.48E+03	nCi/g	S		RAW	Pu239/240	8.76E+07		
AW103	Pu239/240	9/13/90	AS1		1.36E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	8.05E+07		
AW103	Pu239/240	9/13/90	AS2		1.31E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	7.76E+07		
AW103	Pu239/240	9/13/90	AS3		1.30E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	7.70E+07		
AW103	Pu239/240	9/13/90	SRS4		1.20E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	7.10E+07		
AW103	Pu239/240	1/1/89			1.16E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	6.87E+07		
AW103	Pu239/240	1/1/89			1.10E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	6.51E+07		
AW103	Pu239/240	1/1/89			1.09E+03	nCi/g	S		RAW	Pu239/240	6.45E+07		
AW103	Pu239/240	9/13/90	AS4		1.06E+03	nCi/g	S	SOLIDS	RAW	Pu239/240	6.28E+07		
AN-102	Pu239/240	8/1/91					G	Sludge	Wastren	Pu239/240	6.25E+07		
AW-103	Pu239/240	1/1/90					G	Sludge	Wastren	Pu239/240	6.11E+07		
AW103	Pu-239/240	1/23/90	RAT-AW103-1	1.75	0.94	uCi/gm	S	Solids	Braun	Pu239/240	6.09E+07		
AW103	Pu239/240	9/13/90			9.40E+02	nCi/g	Y	SLURRY/SLUDGE	RAW	Pu239/240	5.56E+07		
AW103	Pu239/240	9/13/90	SRS2		9.27E+02	nCi/g	S	SOLIDS	RAW	Pu239/240	5.49E+07		
AW105	Pu239/240	5/1/90	B08WF2	1.28	1137	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	5.38E+07		
AW103	Pu239/240	9/13/90	COMP475		8.68E+02	nCi/g	S	SOLIDS	RAW	Pu239/240	5.14E+07		
AW103	Pu239/240	1/1/89			8.33E+02	nCi/g	S		RAW	Pu239/240	4.93E+07		
AW103	Pu239/240	9/13/90	SRS3		7.95E+02	nCi/g	S	SOLIDS	RAW	Pu239/240	4.71E+07		
AW105	Pu239/240	5/1/90	B08W87	1.4275	880	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.65E+07		
AW105	Pu239/240	5/1/90	B08W80	1.235	1000	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.57E+07		
AW105	Pu-239/240	2/24/87	T-7939	1.18	1	uCi/gm	I	Composite	Braun	Pu239/240	4.37E+07		
AW103	Pu-239/240	2/27/87	7935	1.54	0.68	uCi/gm	S	Solids	Braun	Pu239/240	3.87E+07		
AW105	Pu239/240	5/1/90	B08W16	1.41	666	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	3.47E+07		
AW105	Pu-239	2/24/87	T-7946	1.36	0.681	uCi/gm	I	Composite	Braun	Pu239/240	3.43E+07		
AW103	Pu-239/240	2/27/87	7933		0.56	uCi/gm	S	Solids	Braun	Pu239/240	3.32E+07		
AW103	Pu-239/240	2/27/87	7934		0.56	uCi/gm	S	Solids	Braun	Pu239/240	3.32E+07		

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
 ASA Value: 1.57E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Pu-239/240	2/27/87	7930	1.4	0.64	uCi/gm	S	Solids	Braun	Pu239/240	3.32E+07		
AW105	Pu239/240	5/1/90	B08W90	1.39	636	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	3.27E+07		
AW103	Pu239/240	9/13/90	SRS1		5.50E+02	nCi/g	S	SOLIDS	RAW	Pu239/240	3.26E+07		
AW105	Pu239/240	5/1/90	B08W82	1.36	610	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	3.07E+07		
AW-105	Pu239/240	2/1/87					G	Sludge	Wastren	Pu239/240	3.06E+07		
AW105	Pu-239/240	2/24/87	T-7941	1.34	0.61	uCi/gm	I	Composite	Braun	Pu239/240	3.02E+07		
AW103	Pu239/240	1/1/89			5.02E+02	nCi/g	S		RAW	Pu239/240	2.97E+07		
AW105	Pu-239/240	2/24/87	RAT-AW105-1	1.3	0.603	uCi/gm	G	Sludge/Composite	Braun	Pu239/240	2.90E+07		
AW103	Pu-239/240	2/27/87	7932	1.47	0.53	uCi/gm	S	Solids	Braun	Pu239/240	2.88E+07		
AW105	Pu239/240	5/1/90	B08W17	1.415	546	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.86E+07		
AW105	Pu239/240	5/1/90	B08W17	1.415	527	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.76E+07		
AW105	Pu239/240	5/1/90	B08W13	1.34	524	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.60E+07		
AW105	Pu239/240	5/1/90	B08W13	1.34	520	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.58E+07		
AW105	Pu239/240	5/1/90	B08W87	1.4275	480	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.54E+07		
AW105	Pu-239/240	2/24/87	T-7942	1.41	0.481	uCi/gm	I	Composite	Braun	Pu239/240	2.51E+07		
AW105	Pu-239/240	5/1/86	RAT-AW105-2B	1.2	0.563	uCi/gm	G	Sludge	Braun	Pu239/240	2.50E+07		
AW103	Pu-239/240	2/27/87	7928	1.28	0.51	uCi/gm	S	Solids	Braun	Pu239/240	2.42E+07		
AW105	Pu-239	2/24/87	T-7941	1.34	0.48	uCi/gm	I	Composite	Braun	Pu239/240	2.38E+07		
AW103	Pu239/240	1/1/89			3.80E+02	nCi/g	I	COMPOSITE	RAW	Pu239/240	2.25E+07		
AW105	Pu-239/240	2/24/87	T-7940	1.43	0.381	uCi/gm	I	Composite	Braun	Pu239/240	2.02E+07		
AW105	Pu-239	2/24/87	T-7942	1.41	0.378	uCi/gm	I	Composite	Braun	Pu239/240	1.97E+07		
AW105	Pu239/240	5/1/90	B08W81	1.4	380	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.97E+07		
AW105	Pu239/240	5/1/90	B08W15	1.355	382	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.92E+07		
AW105	Pu239/240	5/1/90	B08W79	1.235	410	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.87E+07		
AW105	Pu239/240	5/1/90	B08W15	1.355	368	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.84E+07		
AW105	Pu-239	5/1/86	RAT-AW105-2B	1.2	0.41	uCi/gm	G	Sludge	Braun	Pu239/240	1.82E+07		
AW105	Pu-239/240	2/24/87	T-7937	1.17	0.412	uCi/gm	I	Composite	Braun	Pu239/240	1.78E+07		
AW103	Pu-239/240	2/27/87	7927	1.22	0.37	uCi/gm	S	Solids	Braun	Pu239/240	1.67E+07		
SY-101	Pu239/240	12/1/91	B0BBB5	1.6	0.26	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	1.54E+07		
AW105	Pu-239	2/24/87	T-7940	1.43	0.283	uCi/gm	I	Composite	Braun	Pu239/240	1.50E+07		
AW103	Pu-239/240	2/27/87	7929	1.38	0.28	uCi/gm	S	Solids	Braun	Pu239/240	1.43E+07		
AW105	Pu-239	2/24/87	T-7937	1.17	0.321	uCi/gm	I	Composite	Braun	Pu239/240	1.39E+07		
AW105	Pu239/240	5/1/90	B08WF1	1.22	266	nCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.20E+07		
SY-102	Pu239/240	10/1/88					G	Sludge	Wastren	Pu239/240	1.12E+07		
AW103	Pu239/240	9/13/90	ASC		1.59E+02	nCi/g	S	SOLIDS	RAW	Pu239/240	9.41E+06		
AW103	Pu	6/1/84	202107B		250	uCi/l	S	Solids	Braun	Pu239/240	9.25E+06		
AW103	Pu	6/15/85	RAT-AW103-2A		240	uCi/l	S	Solids	Braun	Pu239/240	8.88E+06		
SY-101	Pu239/240	12/1/91	B0BBB5	1.6	0.15	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	8.88E+06		
SY102	Pu239	10/1/88	102-SY-4B	1.8	0.13	uCi/g	S	SOLIDS	RAW	Pu239/240	8.66E+06		
SY102	Pu-239	10/1/88	102-SY-4B	1.8	0.13	uCi/gm	G	Sludge	Braun	Pu239/240	8.66E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
 ASA Value: 1.57E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Pu239/240	1/1/89			1.42E+02	nCi/g	S		RAW	Pu239/240	8.41E+06		
AW-101	Pu239/240	7/1/87					G	Sludge	Wastren	Pu239/240	5.79E+06		
AW103	Pu-239/240	1/23/90	RAT-AW103-1C		0.094	uCi/gm	S	Solids	Braun	Pu239/240	5.56E+06		
AN107	Pu239/240	5/13/94	R4048	1.473	9.00E-02	uCi/g	G	Sludge	RAW	Pu239/240	4.91E+06		
AW103	Pu-239/240	12/11/88	R-4346B	1.49	0.086	uCi/gm	S	Solids	Braun	Pu239/240	4.74E+06		
SY103	Pu239/240	9/1/86	12	1.6	1.18E+02	uCi/L	S	Core Segment	RAW	Pu239/240	4.37E+06		
SY103	Pu239/240	9/1/86	7	1.54	1.08E+02	uCi/L	S	Core Segment	RAW	Pu239/240	4.00E+06		
AW103	Pu239/240	9/3/85	R-6449		1.37E-03	g/L	R	SLURRY	RAW	Pu239/240	3.61E+06		
AN102	Pu239/240	11/1/91		1.74	8.55E+01	nCi/ML	S	Solids	RAW	Pu239/240	3.16E+06		
AW103	Pu239/240	9/3/85	R-6450		1.01E-03	g/L	R	SLURRY	RAW	Pu239/240	2.66E+06		
AW103	Pu-239/240	2/27/87	7936	1.51	0.039	uCi/gm	S	Solids	Braun	Pu239/240	2.18E+06		
SY103	Pu239/240	9/1/86	2	1.52	5.79E+01	uCi/L	S	Core Segment	RAW	Pu239/240	2.14E+06		
SY-101	Pu239/240	12/1/91	B0BBB5	1.6	0.03	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.78E+06		
SY-101	Pu239/240	12/1/91	B0BBB5	1.6	0.027	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	1.60E+06		
SY-101	Pu239/240	12/1/91	B0BB95	1.6	0.026	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	1.54E+06		
AW102	Pu239/240	7/30/85	R-5899	1.55	3.68E+01	uCi/L	R	SLURRY	RAW	Pu239/240	1.36E+06		
AW106	Pu239/240	7/30/85	R-5899	1.55	3.68E+01	uCi/L	R	Slurry	RAW	Pu239/240	1.36E+06		
SY-101	Pu239/240	12/1/91	B0BB95	1.6	0.023	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.36E+06		
SY-101	Pu239/240	5/1/91					T	Crust	Wastren	Pu239/240	1.02E+06		
SY-101	Pu239/240	12/1/91	B0BB41	1.6	0.017	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	1.01E+06		
Minimum Plot Limit: 1.00E+06 Bq/L													
SY-101	Pu239/240	5/1/91					S	Bulk, nonconv layr	Wastren	Pu239/240	9.59E+05		
SY-101	Pu239/240	12/1/91	B0BB41	1.6	0.016	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	9.47E+05		
SY101	Pu239/240	5/1/91			1.60E-02	uCi/g	S	Core Sample	RAW	Pu239/240	9.47E+05		
AN102	Pu239/240	2/28/85	R-3640	1.39	2.46E+01	uCi/L	S	Solids	RAW	Pu239/240	9.10E+05		
SY-101	Pu239/240	12/1/91	B0B279	1.306	0.0174	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	8.41E+05		
SY-101	Pu239/240	12/1/91	B0BB23	1.6	0.014	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	8.29E+05		
AW103	Pu-239/240	8/1/84	2838A	1.402	22.4	uCi/l	S	Solids	Braun	Pu239/240	8.29E+05		
SY-101	Pu239/240	5/1/91					S	Bulk, nonconv layr	Wastren	Pu239/240	7.79E+05		
SY-101	Pu239/240	12/1/91	B0BB41	1.6	0.013	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	7.70E+05		
AW103	Pu-239/240	8/1/84	2837	1.426	20	uCi/l	S	Solids	Braun	Pu239/240	7.40E+05		
SY-101	Pu239/240	12/1/91	B0BBC7	1.6	0.012	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	7.10E+05		
SY-101	Pu239/240	12/1/91	B0BBX7	1.6	0.012	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	7.10E+05		
SY-101	Pu239/240	12/1/91	B0BB23	1.6	0.012	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	7.10E+05		
SY-101	Pu239/240	12/1/91	B0BBX7	1.6	0.012	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	7.10E+05		
SY101	Pu-239/240	5/30/86	R-6394	1.69	18.9	uCi/l	R	Slurry	Braun	Pu239/240	6.99E+05		
SY101	Pu239	8/14/80	R-6394		1.89E+01	uCi/L	R	Slurry	RAW	Pu239/240	6.99E+05		
SY101	Pu239/240	5/30/86	R-6394		1.89E+01	uCi/L	R	Slurry	RAW	Pu239/240	6.99E+05		
SY101	Pu239/240	5/30/86	R-6394	1.69	1.89E+01	uCi/L	S	Bottom Sample	RAW	Pu239/240	6.99E+05		
SY-101	Pu239/240	12/1/91	B0B280	1.3305	0.0138	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	6.79E+05		

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
 ASA Value: 1.57E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Pu239/240	12/1/91	B0BBC7	1.6	0.011	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	6.51E+05		
SY101	Pu239	8/14/80	R-6395		1.67E+01	uCi/L	R	Slurry	RAW	Pu239/240	6.18E+05		
SY101	Pu239/240	5/30/86	R-6395	1.6	1.67E+01	uCi/L	R	Slurry	RAW	Pu239/240	6.18E+05		
SY101	Pu239/240	5/30/86	R-6395		1.67E+01	uCi/L	Y	Slurry/Sludge	RAW	Pu239/240	6.18E+05		
SY101	Pu-239/240	5/30/86	R-6395	1.17	16.7	uCi/l	R	Slurry	Braun	Pu239/240	6.18E+05		
SY101	Pu-239/240	5/30/86	R-6395	1.29	16.7	uCi/l	R	Slurry	Braun	Pu239/240	6.18E+05		
SY-101	Pu239/240	12/1/91	B0B280	1.3305	0.0125	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	6.15E+05		
SY-101	Pu239/240	12/1/91	B0B280	1.3305	0.0121	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	5.96E+05		
SY-101	Pu239/240	12/1/91	B0BBX7	1.6	0.01	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	5.92E+05		
SY-101	Pu239/240	12/1/91	B0B281	1.244	0.0127	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	5.85E+05		
SY-101	Pu239/240	12/1/91	B0B281	1.244	0.0117	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	5.39E+05		
SY-101	Pu239/240	12/1/91	B0B279	1.306	0.0111	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	5.36E+05		
SY-101	Pu239/240	12/1/91	B0B279	1.306	0.0111	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	5.36E+05		
SY-101	Pu239/240	12/1/91	B0BBX7	1.6	0.009	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	5.33E+05		
SY-101	Pu239/240	12/1/91	B0B281	1.244	0.0109	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	5.02E+05		
SY-101	Pu239/240	12/1/91	B0B282	1.235	0.0108	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.94E+05		
SY-101	Pu239/240	12/1/91	B0B281	1.244	0.0106	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.88E+05		
SY-101	Pu239/240	12/1/91	B0B282	1.235	0.0106	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	4.84E+05		
SY-101	Pu239/240	12/1/91	B0B282	1.235	0.00994	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	4.54E+05		
AW103	Pu-239/240	8/1/84	2836B	1.517	12	uCi/l	S	Solids	Braun	Pu239/240	4.44E+05		
SY-101	Pu239/240	12/1/91	B0B282	1.235	0.00956	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.37E+05		
SY-101	Pu239/240	12/1/91	B0BBR6	1.6	0.0073	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.32E+05		
SY-101	Pu239/240	12/1/91	B0BBD5	1.6	0.007	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	4.14E+05		
SY-101	Pu239/240	12/1/91	B0B279	1.306	0.00793	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	3.83E+05		
AW103	Pu-239/240	8/1/84	2838B	1.65	10	uCi/l	S	Solids	Braun	Pu239/240	3.70E+05		
SY-101	Pu239/240	12/1/91	B0B9Z7	1.6	0.006	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	3.55E+05		
AN103	Pu	1/25/85	R-3645	1.35	0.000126	gm/l	G	Sludge	Braun	Pu239/240	3.32E+05		
AN103	Pu	1/25/85	R-3644	1.36	0.000123	gm/l	G	Sludge	Braun	Pu239/240	3.24E+05		
SY101	Pu239	8/14/80	R-6396		8.65E+00	uCi/L	R	Slurry	RAW	Pu239/240	3.20E+05		
SY101	Pu239/240	5/30/86	R-6396	1.33	8.65E+00	uCi/L	R	Slurry	RAW	Pu239/240	3.20E+05		
SY101	Pu239/240	5/30/86	R-6396		8.65E+00	uCi/L	Y	Slurry/Sludge	RAW	Pu239/240	3.20E+05		
SY103	Pu-239/240	6/24/85	R-5255	1.69	8.28	uCi/l	R	Slurry/Solids	Braun	Pu239/240	3.06E+05		
SY103	Pu239/240	6/24/85	R-5255	1.69	8.28E+00	uCi/L	R	Slurry	RAW	Pu239/240	3.06E+05		
AW103	Pu-239/240	2/27/87	7938	1.56	0.0047	uCi/gm	S	Solids	Braun	Pu239/240	2.71E+05		
AP102	Pu239/240	4/1/93	B0B2L7	1.2	0.007	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.59E+05		
AW103	Pu-239/240	8/1/84	2750B	1.415	6.8	uCi/l	S	Solids	Braun	Pu239/240	2.52E+05		
SY-101	Pu239/240	12/1/91	B0B9X3	1.6	0.004	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	2.37E+05		
SY-101	Pu239/240	12/1/91	B0B9Z7	1.6	0.004	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	2.37E+05		
SY-101	Pu239/240	12/1/91	B0B9X3	1.6	0.004	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.37E+05		
SY-101	Pu239/240	12/1/91	B0BBR2	1.6	0.0039	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	2.31E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
 ASA Value: 1.57E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
SY-101	Pu239/240	5/1/91					S	Solids	Wastren	Pu239/240	2.23E+05		
SY-101	Pu239/240	12/1/91	B0BBQ6	1.6	0.0031	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.84E+05		
SY-103	Pu239/240	7/1/91					R	Slurry	Wastren	Pu239/240	1.82E+05		
SY-101	Pu239/240	12/1/91	B0B9X3	1.6	0.003	uCi/g	S	DUPLICATE_RESULT	TCD	Pu239/240	1.78E+05		
SY-101	Pu239/240	12/1/91	B0B9Z7	1.6	0.003	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.78E+05		
SY-101	Pu239/240	5/1/91					S	Solids	Wastren	Pu239/240	1.68E+05		
SY-101	Pu239/240	12/1/91	B0B9X3	1.6	0.002	uCi/g	S	PRIMARY_RESULT	TCD	Pu239/240	1.18E+05		
AW101	Pu239/240	6/30/86	R-9895	1.57	3.52E-05	g/L	R	SLURRY	RAW	Pu239/240	9.27E+04		
AN102	Pu	3/14/85			1.05E+00		G	Sludge	Wastren	Pu239/240	7.49E+04		
AN-103	Pu239/240	2/1/90					R	Slurry	Wastren	Pu239/240	7.03E+04		
AW101	Pu239/240	7/6/86	R-9897	1.49	2.36E-05	g/L	R	SLURRY	RAW	Pu239/240	6.22E+04		
SY103	Pu239/240	7/2/85	R-5256	1.47	1.57E+00	uCi/L	R	Slurry	RAW	Pu239/240	5.81E+04		
SY103	Pu-239/240	7/2/85	R-5256	1.35	1.25	uCi/l	R	Slurry/Solids	Braun	Pu239/240	4.63E+04		
AN103	Pu239/240	9/25/87	TK092587	1.56	1.24E-06	Ci/L	G	Sludge	RAW	Pu239/240	4.59E+04		
AW101	Pu-239/240	6/28/90	RAT-AW101-1	1.54	1.145	uCi/l	I	Composite	Braun	Pu239/240	4.24E+04		
AW101	Pu239/240	7/2/86	R-9896	1.53	1.50E-05	g/L	R	SLURRY	RAW	Pu239/240	3.95E+04		
AW105	Pu-239/240	2/24/87	T-7946	1.36	0.883	uCi/l	I	Composite	Braun	Pu239/240	3.27E+04		
AW101	Pu239/240	6/26/86	R-9894	1.5	1.05E-05	g/L	R	SLURRY	RAW	Pu239/240	2.77E+04		
AW101	Pu239/240	6/23/86	R-9893	1.37	9.30E-06	g/L	R	SLURRY	RAW	Pu239/240	2.45E+04		
AW102	Pu239/240	2/10/86	R-8117		8.35E-06	g/L	R	SLURRY	RAW	Pu239/240	2.20E+04		
AW102	Pu239/240	2/13/86	R-8119	1.51	7.20E-06	g/L	R	SLURRY	RAW	Pu239/240	1.90E+04		
SY102	Pu	10/5/84	R-3036		0.38	uCi/l	S	Solids	Braun	Pu239/240	1.41E+04		
AW102	Pu239/240	2/11/86	R-8118	1.79	4.10E-06	g/L	R	SLURRY	RAW	Pu239/240	1.08E+04		
AN103	Pu-239/240	3/28/86	R-8190	1.48	0.0000038	gm/l	G	Sludge	Braun	Pu239/240	1.00E+04		
AN103	Pu	3/28/86	R-8190	1.48	3.80E-06	g/l	S		RAW	Pu239/240	1.00E+04		
AW102	Pu239/240	2/14/86	R-8120	1.54	3.58E-06	g/L	R	SLURRY	RAW	Pu239/240	9.43E+03		
AW102	Pu-239/240	2/4/86	T-5578	1.47	0.00000152	gm/l	R	Slurry	Braun	Pu239/240	4.01E+03		
AW102	Pu239/240	2/4/86	T-5578	1.47	1.52E-06	g/L	R	SLURRY	RAW	Pu239/240	4.00E+03		
AW102	Pu239/240	2/4/86	T-5579	1.49	1.43E-06	g/L	R	SLURRY	RAW	Pu239/240	3.77E+03		
SY102	Pu239/240	8/19/89	T-5155		9.37E-02	uCi/L	S	Solids	RAW	Pu239/240	3.47E+03		
SY103	Pu239/240	9/1/86	PNL3SY#7		7.03E-05	mCi/L	S	Slurry/Sludge	RAW	Pu239/240	2.60E+03		
AP102	Pu239/240	4/1/93	B0B2M5	1.19	0.0000699	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.59E+03		
AP102	Pu239/240	4/1/93	B0B2M6	1.205	0.000069	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.55E+03		
AP102	Pu239/240	4/1/93	B0B2M7	1.2	0.0000686	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.54E+03		
AP102	Pu239/240	4/1/93	B0B2M3	1.2	0.0000681	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.52E+03		
AP102	Pu239/240	4/1/93	B0B2L7	1.2	0.0000672	uCi/mL	S	DUPLICATE_RESULT	TCD	Pu239/240	2.49E+03		
AW105	Pu-239	2/24/87	RAT-AW105-1	1.3	0.0000442	uCi/gm	G	Sludge/Composite	Braun	Pu239/240	2.13E+03		
SY-102	Pu239				0.0000115	g-moles	S		TRAC	Pu239/240	1.65E+01		
SY103	Pu239/240	9/1/86	2.00E+00		3.81E-05	uCi/L	G	Sludge	RAW	Pu239/240	1.41E+00		
AW101	Pu239/240	1/13/86	R-7695	1.29	1.47E-05	uCi/L	R	SLURRY	RAW	Pu239/240	5.44E-01		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Plutonium 239/240 Double-Shell Tank Solids [Sketch ES-VAL-CR38]
ASA Value: 1.57E+09 Bq/L

Tank Waste Characterization Sample Information											
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide Information	
					Value	Unit				Radionuclide	Bq/L Decayed
AW102	Pu-239/240	2/4/86	T-5579	1.49	0.00000143	uCi/l	R	Slurry	Braun	Pu239/240	5.29E-02

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Double-Shell Tank Liquids [Sketch ES-VAL-CR39]
 ASA Value: 2.00E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW102	Pu241	1/16/85	R-3457	1.25	793000	uCi/L	L	FEED	RAW	Pu241	2.93E+10	1.82E+10	7
ASA Value: 2.00E+07 Bq/L													22
AN107	Pu241	3/6/85					P	Supernatant	Wastren	Pu241	2.74E+07	1.71E+07	
AN107	Pu-241	2/28/85	R-3637	1.41	740	uCi/l	P	Supernate	Braun	Pu-241	2.74E+07	1.71E+07	
AN107	Pu-241	2/28/85	R-3638	1.35	330	uCi/l	L	Liquor	Braun	Pu-241	1.22E+07	7.61E+06	
AW102	Pu241	1/18/85	R-3181	1.359	79.5	uCi/L	L	LIQUID	RAW	Pu241	2.94E+06	1.82E+06	
SY102	Pu-241	10/5/84	R-3038	1.06	67.5	uCi/l	P	Supernate	Braun	Pu-241	2.50E+06	1.53E+06	
AW102	Pu241	1/16/85	R-3483	1.43	59.9	uCi/L	F	FILTRATE	RAW	Pu241	2.22E+06	1.37E+06	
SY102	Pu-241	10/5/84	R-3037	1.03	30	uCi/l	P	Supernate	Braun	Pu-241	1.11E+06	6.79E+05	
AW103	Pu-241	8/1/84	2836		12.8	uCi/l	P	Supernate	Braun	Pu-241	4.74E+05	2.87E+05	
AW102	Pu241	1/16/85	R-3486	1.47	10.1	uCi/L	F	FILTRATE	RAW	Pu241	3.74E+05	2.32E+05	
AW103	Pu-241	8/1/84	2750		9.2	uCi/l	P	Supernate	Braun	Pu-241	3.40E+05	2.06E+05	
Minimum Plot Limit: 1.00E+05 Bq/L													
AW105	Pu-241	5/1/86	RAT-AW105-2A	1.079	0.00224	uCi/gm	P	Supernate	Braun	Pu-241	8.94E+04	5.90E+04	
AW106	Pu241	1/18/85	T-6851	1.4	0.0026	uCi/L	U	Unknown	RAW	Pu241	9.62E+01	5.97E+01	
SY-103	Pu241						L		TRAC	Pu241		1.91E+01	
AW102	Pu241	1/18/85	R-3180	1.36	0.00054	uCi/L	U	UNKNOWN	RAW	Pu241	2.00E+01	1.24E+01	
SY-102	Pu241						L		TRAC	Pu241		1.02E+01	
AW102	Pu241	1/16/85	R-3482	1.44	0.00044	uCi/L	F	FILTRATE	RAW	Pu241	1.61E+01	1.00E+01	
SY-101	Pu241						L		TRAC	Pu241		4.36E+00	
AW102	Pu241	1/16/85	R-3485	1.47	0.0001	uCi/L	F	FILTRATE	RAW	Pu241	3.81E+00	2.36E+00	
AW-106	Pu241						L		TRAC	Pu241		9.88E-01	
AW-103	Pu241						L		TRAC	Pu241		6.90E-11	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Double-Shell Tank Solids [Sketch ES-VAL-CR40]
 ASA Value: 4.14E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported		Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
					Value	Unit							
SY102	Pu241	10/1/88	102-SY-3C		117	uCi/g	R	SLURRY	RAW	Pu241	6.93E+09	5.13E+09	18
ASA Value: 4.14E+09 Bq/L													
SY102	Pu241	10/1/88	102-SY-3C	1.29	117	uCi/g	R	SLURRY	RAW	Pu241	5.58E+09	4.14E+09	*18
SY102	Pu-241	10/1/88	102-SY-1-2		117	uCi/gm	S	Solid	Braun	Pu-241	4.76E+09	3.53E+09	
SY102	Pu241	10/1/88	102-SY-T4C	1.52	35.8	uCi/g	S	SOLIDS	RAW	Pu241	2.01E+09	1.49E+09	
AW105	Pu241	2/1/87					G	Sludge	Wastren	Pu241	5.18E+08	3.54E+08	
AW105	Pu-241	5/1/86	RAT-AW105-2B	1.2	11.8	uCi/gm	G	Sludge	Braun	Pu-241	5.24E+08	3.45E+08	
AW105	Pu241	2/18/87	7946		7340	nCi/g	G	Sludge	RAW	Pu241	4.34E+08	2.98E+08	
AW105	Pu241	2/18/87	7941		7160	nCi/g	G	Sludge	RAW	Pu241	4.24E+08	2.90E+08	
AW105	Pu241	2/18/87	7940		6260	nCi/g	G	Sludge	RAW	Pu241	3.71E+08	2.54E+08	
AW105	Pu-241	2/24/87	T-7946	1.36	7.306	uCi/gm	I	Composite	Braun	Pu-241	3.68E+08	2.52E+08	
AW105	Pu-241	2/24/87	T-7941	1.34	7.159	uCi/gm	I	Composite	Braun	Pu-241	3.55E+08	2.43E+08	
AW105	Pu-241	2/24/87	T-7940	1.43	6.263	uCi/gm	I	Composite	Braun	Pu-241	3.31E+08	2.27E+08	
AW105	Pu241	2/18/87	7942		5560	nCi/g	G	Sludge	RAW	Pu241	3.29E+08	2.25E+08	
AW105	Pu-241	2/24/87	T-7942	1.41	5.557	uCi/gm	I	Composite	Braun	Pu-241	2.90E+08	1.99E+08	
SY103	Pu241	9/1/86	2	1.52	6980	uCi/L	S	Core Segment	RAW	Pu241	2.58E+08	1.73E+08	
AW105	Pu-241	2/24/87	T-7937	1.17	5.058	uCi/gm	I	Composite	Braun	Pu-241	2.19E+08	1.50E+08	
SY102	Pu241	10/1/88					G	Sludge	Wastren	Pu241	8.14E+07	6.03E+07	
SY102	Pu241	10/1/88	102-SY-4B	1.8	1.22	uCi/g	S	SOLIDS	RAW	Pu241	8.13E+07	6.02E+07	
SY102	Pu-241	10/1/88	102-SY-4B	1.8	1.22	uCi/gm	G	Sludge	Braun	Pu-241	8.13E+07	6.02E+07	
SY102	Pu-241	10/5/84	R-3036		1.27	uCi/gm	S	Solids	Braun	Pu-241	7.52E+07	4.60E+07	
AW103	Pu-241	8/1/84	2838B	1.65	160	uCi/l	S	Solids	Braun	Pu-241	5.92E+06	3.59E+06	
AW103	Pu-241	8/1/84	2750B	1.415	135	uCi/l	S	Solids	Braun	Pu-241	5.00E+06	3.03E+06	
AW103	Pu-241	8/1/84	2837	1.426	104	uCi/l	S	Solids	Braun	Pu-241	3.85E+06	2.33E+06	
AW103	Pu-241	8/1/84	2838A	1.402	88	uCi/l	S	Solids	Braun	Pu-241	3.26E+06	1.97E+06	
AN102	Pu241	2/28/85	R-3640	1.39	63.8	uCi/L	S	Solids	RAW	Pu241	2.36E+06	1.47E+06	
AW103	Pu-241	8/1/84	2836B	1.517	52	uCi/l	S	Solids	Braun	Pu-241	1.92E+06	1.17E+06	
AN103	Pu241	1/18/85	R-3182		44.4	uCi/L	G	Sludge	RAW	Pu241	1.64E+06	1.02E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
AW102	Pu241	1/16/85	R-3483	1.41	15.6	uCi/L	R	SLURRY	RAW	Pu241	5.77E+05	3.58E+05	
AW105	Pu-241	2/24/87	RAT-AW105-1	1.3	10.2	uCi/l	G	Sludge/Composite	Braun	Pu-241	3.77E+05	2.59E+05	
AW102	Pu241	1/16/85	R-3486	1.42	10.9	uCi/L	R	SLURRY	RAW	Pu241	4.03E+05	2.50E+05	
SY103	Pu241	9/1/86	2		0.00459	uCi/L	G	Sludge	RAW	Pu241	1.70E+02	1.14E+02	
SY-102	Pu241				4.1E-08	g-moles			TRAC	Pu241	1.08E+02	5.53E+01	
AW102	Pu241	1/16/85	R-3485	1.45	0.00013	uCi/L	R	SLURRY	RAW	Pu241	4.77E+00	2.96E+00	
AW102	Pu241	1/16/85	R-3482	1.43	0.00012	uCi/L	R	SLURRY	RAW	Pu241	4.55E+00	2.82E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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Waste Characterization Sample Information					Radionuclide Information								ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW-106	Sr90						L		TRAC	Sr 89/90		5.84E+09	4
Preliminary ASA Value: 5.1E+09 Bq/L													26
AN107	Sr90	2/7/93	R-3155	1.384	99	uCi/g	P	Supernatant	RAW	Sr 89/90	5.07E+09	5.07E+09	26
ASA Value: 4.79E+09 Bq/L													
AN107	Sr-89/90	2/28/85	R-3638	1.35	164000	uCi/l	L	Liquor	Braun	Sr 89/90	6.07E+09	4.79E+09	*
SY-103	Sr90						L		TRAC	Sr 89/90		4.54E+09	
AN107	Sr89/90	3/2/85					P	Supernatant	Wastren	Sr 89/90	5.48E+09	4.33E+09	
AN107	Sr-89/90	2/28/85	R-3637	1.41	148000	uCi/l	P	Supernate	Braun	Sr 89/90	5.48E+09	4.32E+09	
AN102	Sr89/90	8/1/91					P	Supernate	Wastren	Sr 89/90	4.33E+09	3.99E+09	
AN107	Sr90	2/7/93	R-3155	1.384	99	uCi/ml	P	Supernatant	RAW	Sr 89/90	3.66E+09	3.50E+09	26
SY-102	Sr90						L		TRAC	Sr 89/90		2.42E+09	
SY-101	Sr90						L		TRAC	Sr 89/90		1.64E+09	
SY-101	Sr90	12/1/91	BOBB62	1.1	42.6	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.73E+09	1.61E+09	
SY-101	Sr90	12/1/91	BOBB62	1.1	40.6	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.65E+09	1.53E+09	
SY-101	Sr90	12/1/91	BOBB62	1.1	40.6	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.65E+09	1.53E+09	
AW102	Sr90	1/4/83		1.25	48800	uCi/L	L	LIQUID	RAW	Sr 89/90	1.81E+09	1.35E+09	
AP105	Sr90	3/1/93	BO8VX8	1.377	0.259	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.37E+09	1.31E+09	
AP105	Sr90	3/1/93	BO8VX4	1.1	0.253	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.34E+09	1.28E+09	
AP105	Sr90	3/1/93	BO8VX8	1.377	0.246	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.30E+09	1.25E+09	
AP105	Sr90	3/1/93	BO8VX3	1.3	0.247	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.31E+09	1.25E+09	
AP105	Sr90	3/1/93	BO8VX7	1.298	0.244	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.29E+09	1.24E+09	
AP105	Sr90	3/1/93	BOB3C9	1.3	0.236	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.25E+09	1.19E+09	
AP105	Sr90	3/1/93	BO8VX3	1.3	0.232	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.23E+09	1.17E+09	
AP105	Sr90	3/1/93	BO8VX4	1.1	0.23	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.22E+09	1.16E+09	
AP105	Sr90	3/1/93	BO8VX2	1.2975	0.23	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.22E+09	1.16E+09	
AP105	Sr90	3/1/93	BOB3C9	1.3	0.224	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.19E+09	1.13E+09	
AP105	Sr90	3/1/93	BO8VX7	1.298	0.224	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.19E+09	1.13E+09	
AP105	Sr90	3/1/93	BOB3D1	1.334	0.217	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.15E+09	1.10E+09	
AN104	Sr90	11/9/84	R-3206	1.41	36300	uCi/L	L	ALIQUOT	RAW	Sr 89/90	1.34E+09	1.05E+09	
AP105	Sr90	3/1/93	BOB3C8	1.327	0.207	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.10E+09	1.05E+09	
AP105	Sr90	3/1/93	BOB3C8	1.327	0.207	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.10E+09	1.05E+09	
AP105	Sr90	3/1/93	BOB3D2	1.329	0.207	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.10E+09	1.05E+09	
AP105	Sr90	3/1/93	BO8VX2	1.2975	0.208	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.10E+09	1.05E+09	
AW104	Sr90	11/9/84	R-3206	1.41	36300	uCi/L	O	LIQUID	RAW	Sr 89/90	1.34E+09	1.05E+09	
AW104	Sr89/90	11/1/84					P	Supernatant	Wastren	Sr 89/90	1.34E+09	1.05E+09	
AP105	Sr90	3/1/93	BOB3D1	1.334	0.199	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.05E+09	1.01E+09	
AP105	Sr90	3/1/93	BO8VX9	1.3335	0.198	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.05E+09	1.00E+09	
AP105	Sr90	3/1/93	BOB3D2	1.329	0.194	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.03E+09	9.82E+08	
AP105	Sr90	3/1/93	BO8VX5	1.3375	0.191	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.01E+09	9.67E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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Waste Characterization Sample Information							Radionuclide Information						ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP105	Sr90	3/1/93	B08VX0	1.345	0.188	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	9.95E+08	9.52E+08	
AP105	Sr90	3/1/93	B08VX6	1.3375	0.183	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	9.68E+08	9.27E+08	
AP105	Sr90	3/1/93	B08VX6	1.3375	0.18	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	9.52E+08	9.11E+08	
AP105	Sr90	3/1/93	B08VX1	1.34	0.179	ug/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	9.47E+08	9.06E+08	
AP105	Sr90	3/1/93	B08VX9	1.3335	0.179	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	9.47E+08	9.06E+08	
AP105	Sr90	3/1/93	B08VX0	1.345	0.176	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	9.31E+08	8.91E+08	
AP105	Sr90	3/1/93	B08VX1	1.34	0.172	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	9.10E+08	8.71E+08	
AP105	Sr90	3/1/93	B08VX5	1.3375	0.168	ug/mL	L	PRIMARY RESULT	TCD	Sr 89/90	8.89E+08	8.51E+08	
AW106	Sr-89/90	8/7/88	T-1621	1.241	21300	uCi/l	P	Supernate	Braun	Sr 89/90	7.88E+08	6.76E+08	
AW106	Sr89/90	8/1/88					P	Supernatant	Wastren	Sr 89/90	7.88E+08	6.75E+08	
AW101	Sr90	11/9/84	R-3214	1.03	23200	uCi/L	L		RAW	Sr 89/90	8.58E+08	6.72E+08	
AW102	Sr90	1/18/85	R-3181	1.359	22600	uCi/L	L	LIQUID	RAW	Sr 89/90	8.36E+08	6.58E+08	
AW102	Sr90	1/18/85	R-3180	1.36	20400	uCi/L	U	UNKNOWN	RAW	Sr 89/90	7.55E+08	5.94E+08	
AW102	Sr90	11/9/84	R-3302	1.32	20200	uCi/L	L	FEED	RAW	Sr 89/90	7.47E+08	5.86E+08	
AW102	Sr90	1/16/85	R-3486	1.47	19900	uCi/L	F	FILTRATE	RAW	Sr 89/90	7.36E+08	5.80E+08	
AW106	Sr90	1/18/85	T-6851	1.4	18500	uCi/L	U	Unknown	RAW	Sr 89/90	6.85E+08	5.39E+08	
AW102	Sr90	11/9/84	R-3303	1.4	17100	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	6.33E+08	4.96E+08	
AW102	Sr90	1/18/85	R-3209	1.37	16600	uCi/L	U	UNKNOWN	RAW	Sr 89/90	6.14E+08	4.84E+08	
AN104	Sr90	1/15/85	R-3304	1.34	14100	uCi/L	L	FEED	RAW	Sr 89/90	5.22E+08	4.11E+08	
AW101	Sr90	6/26/86	T-686	1.31	13200	uCi/L	U	UNKNOWN	RAW	Sr 89/90	4.88E+08	3.98E+08	
AW101	Sr90	12/30/81	T-1049	1.329	14600	uCi/L	L	NO SOLIDS	RAW	Sr 89/90	5.40E+08	3.95E+08	
AN104	Sr90	1/15/85	R-3414	1.28	12900	uCi/L	L	FEED	RAW	Sr 89/90	4.77E+08	3.76E+08	
AW101	Sr90	12/30/81	T-1048	1.324	13600	uCi/L	L	NO SOLIDS	RAW	Sr 89/90	5.03E+08	3.68E+08	
AN104	Sr90	1/15/85	R-3306	1.35	12300	uCi/L	L	FEED	RAW	Sr 89/90	4.55E+08	3.58E+08	
AW101	Sr90	6/23/86		1.36	9400	uCi/L	F	FILTRATE	RAW	Sr 89/90	3.48E+08	2.83E+08	
AW102	Sr90	4/7/83	R5001	1.36	9960	uCi/L	L	LIQUID	RAW	Sr 89/90	3.69E+08	2.78E+08	
AW101	Sr90	6/26/86		1.49	8780	uCi/L	F	FILTRATE	RAW	Sr 89/90	3.25E+08	2.65E+08	
AW101	Sr90	6/23/86	T-621	1.44	8240	uCi/L	U	UNKNOWN	RAW	Sr 89/90	3.05E+08	2.48E+08	
AN104	Sr90	1/15/85	R-3412	1.35	8220	uCi/L	L	FEED	RAW	Sr 89/90	3.04E+08	2.39E+08	
AW101	Sr90	7/2/86	T-882	1.32	6340	uCi/L	U	UNKNOWN	RAW	Sr 89/90	2.35E+08	1.91E+08	
AW101	Sr90	1/13/86	R-7694	1.18	6280	uCi/L	U	UNKNOWN	RAW	Sr 89/90	2.32E+08	1.87E+08	
AW101	Sr90	6/30/86		1.54	6000	uCi/L	F	FILTRATE	RAW	Sr 89/90	2.22E+08	1.81E+08	
SY101	Sr89/90	5/1/91					L	Liquid	Wastren	Sr 89/90	1.78E+08	1.63E+08	
SY103	Sr89/90	7/1/85					P	Supernatant	Wastren	Sr 89/90	1.99E+08	1.58E+08	
AN106	Sr89/90	3/1/91					P	Supernatant	Wastren	Sr 89/90	1.63E+08	1.49E+08	
SY-101	Sr90	12/1/91	BOB279	1.305	3.2034	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.55E+08	1.44E+08	
SY-101	Sr90	12/1/91	BOB279	1.305	3.135	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.51E+08	1.41E+08	
AN106	Sr90	7/21/87	R2456	1.233	4360	uCi/L	P	SUPERNATE	RAW	Sr 89/90	1.61E+08	1.35E+08	
SY-101	Sr90	12/1/91	BOB280	1.3275	2.9646	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.46E+08	1.35E+08	
AN106	Sr-89/90	2/19/87	R-2456	1.223	4360	uCi/l	P	Supernate	Braun	Sr 89/90	1.61E+08	1.34E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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Waste Characterization Sample Information								Radionuclide Information					ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Sr90	12/1/91	BOB280	1.3275	2.919	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.43E+08	1.33E+08	
SY-101	Sr90	12/1/91	BOB280	1.3275	2.867	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.41E+08	1.31E+08	
SY101	Sr89/90	5/1/91					L	Liquid	Wastren	Sr 89/90	1.40E+08	1.28E+08	
SY-101	Sr90	12/1/91	BOB280	1.3275	2.709	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.33E+08	1.24E+08	
AW101	Sr90	7/6/86	T-959	1.23	4010	uCi/L	U	UNKNOWN	RAW	Sr 89/90	1.48E+08	1.21E+08	
SY-101	Sr90	12/1/91	BOB282	1.235	2.688	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.23E+08	1.14E+08	
SY-101	Sr90	12/1/91	BOB282	1.235	2.656	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.21E+08	1.13E+08	
SY-101	Sr90	12/1/91	BOB282	1.235	2.673	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.22E+08	1.13E+08	
SY-101	Sr90	12/1/91	BOB279	1.305	2.4453	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.18E+08	1.10E+08	
SY-101	Sr90	12/1/91	BOB282	1.235	2.5758	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.18E+08	1.09E+08	
SY-101	Sr90	12/1/91	BOB279	1.305	2.3985	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.16E+08	1.08E+08	
SY-101	Sr90	12/1/91	BOB281	1.2425	2.4235	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.11E+08	1.03E+08	
SY-101	Sr90	12/1/91	BOB281	1.2425	2.394	uCi/g	L	PRIMARY RESULT	TCD	Sr 89/90	1.10E+08	1.02E+08	
AW101	Sr90	11/20/94	R-2644		2700	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	9.99E+07	9.96E+07	
SY-101	Sr90	12/1/91	BOB281	1.2425	2.3184	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.07E+08	9.90E+07	
SY-101	Sr90	12/1/91	BOB281	1.2425	2.294	uCi/g	L	DUPLICATE RESULT	TCD	Sr 89/90	1.05E+08	9.79E+07	
SY101	Sr-89/90	5/30/86	R-6395	1.17	3240	uCi/l	P	Supernate	Braun	Sr 89/90	1.20E+08	9.75E+07	
SY101	Sr-89/90	5/30/86	R-6395	1.29	3240	uCi/l	P	Supernate	Braun	Sr 89/90	1.20E+08	9.75E+07	
AW103	Sr90	6/17/85		1.09	3.1	mCi/L	O	OTHER	RAW	Sr 89/90	1.15E+08	9.12E+07	
AN105	Sr89/90	11/9/94		1.434	2240	uCi/L	L	Aliquot	RAW	Sr 89/90	8.29E+07	8.26E+07	
SY-101	Sr90	12/1/91	BOB9X3	1.2668	2320	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	8.58E+07	7.97E+07	
SY-101	Sr90	12/1/91	BOB9Z7	1.1736	2210	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	8.18E+07	7.59E+07	
AW102	Sr90	1/16/85	R-3482	1.44	2510	uCi/L	F	FILTRATE	RAW	Sr 89/90	9.29E+07	7.31E+07	
SY-101	Sr90	12/1/91	BOB9Z7	1.1736	2070	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	7.66E+07	7.11E+07	
AW101	Sr90	6/30/86	T-812	1.13	2200	uCi/L	U	UNKNOWN	RAW	Sr 89/90	8.14E+07	6.64E+07	
AN105	Sr89/90	11/1/84					P	Supernatant	Wastren	Sr 89/90	8.29E+07	6.49E+07	
SY-101	Sr90	12/1/91	BOB9X3	1.2668	1860	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	6.88E+07	6.39E+07	
AN101	Sr 89/90	7/1/88					P	Supernate	Wastren	Sr 89/90	7.18E+07	6.14E+07	
AN101	Sr90	7/4/88	T-672	1.256	1940	uCi/L	O	OTHER	RAW	Sr 89/90	7.18E+07	6.14E+07	
SY-101	Sr90	12/1/91	BOB9Z7	1.1736	1720	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	6.36E+07	5.91E+07	
SY-101	Sr90	12/1/91	BOB9X3	1.2668	1640	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	6.07E+07	5.63E+07	
AW101	Sr90	7/2/86		1.5	1830	uCi/L	F	FILTRATE	RAW	Sr 89/90	6.77E+07	5.52E+07	
SY102	Sr-89/90	11/1/84	R-3318A	1.42	1790	uCi/l	P	Supernate	Braun	Sr 89/90	6.62E+07	5.19E+07	
SY101	Sr-89/90	6/11/80	T-1227	1.1057	1900	uCi/l	P	Supernate	Braun	Sr 89/90	7.03E+07	4.96E+07	
SY102	Sr-89/90	11/1/84	R-3317A	1.44	1670	uCi/l	P	Supernate	Braun	Sr 89/90	6.18E+07	4.84E+07	
AW102	Sr90	1/16/85	R-3485	1.47	1560	uCi/L	F	FILTRATE	RAW	Sr 89/90	5.77E+07	4.54E+07	
AW102	Sr90	1/16/85	R-3487	1.47	1560	uCi/L	F	FILTRATE	RAW	Sr 89/90	5.77E+07	4.54E+07	
AP102	Sr90	4/1/93	BOB2N4	1.21	1.1	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.07E+07	3.90E+07	
AN104	Sr89/90	7/1/84					P	Supernatant	Wastren	Sr 89/90	4.70E+07	3.65E+07	
AN104	Sr90	7/2/84	R9991	1.464	1270	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	4.70E+07	3.65E+07	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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Waste Characterization Sample Information											Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID	
AW101	Sr89/90	6/1/90					L	Supernatant	Wastren	Sr 89/90	4.03E+07	3.61E+07		
SY-101	Sr90	12/1/91	BOBB23	1.144	1030	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	3.81E+07	3.54E+07		
SY-101	Sr90	12/1/91	BOBB23	1.144	1030	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	3.81E+07	3.54E+07		
SY-101	Sr90	12/1/91	BOBB23	1.144	887	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	3.28E+07	3.05E+07		
AP102	Sr90	4/1/93	BOB2M9	1.195	0.834	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	3.09E+07	2.96E+07		
AW102	Sr90	1/16/85	R-3457	1.25	963	uCi/L	L	FEED	RAW	Sr 89/90	3.56E+07	2.81E+07		
AP102	Sr90	4/1/93	BOB2N1	1.195	0.778	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.88E+07	2.76E+07		
AP102	Sr90	4/1/93	BOB2N4	1.21	0.779	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.88E+07	2.76E+07		
AP102	Sr90	4/1/93	BOB2M9	1.195	0.759	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.81E+07	2.69E+07		
AP102	Sr90	4/1/93	BOB2N1	1.195	0.754	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.79E+07	2.68E+07		
SY102	Sr-89/90	11/1/84	R-3316A	1.41	884	uCi/l	P	Supernate	Braun	Sr 89/90	3.27E+07	2.56E+07		
AP102	Sr90	4/1/93	BOB2T9	1.19	0.719	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.66E+07	2.55E+07		
AW102	Sr90	2/13/86	T-5582	1.45	850	uCi/L	L	FEED	RAW	Sr 89/90	3.15E+07	2.54E+07		
AP102	Sr90	4/1/93	BOB2T9	1.19	0.7	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.59E+07	2.48E+07		
AW102	Sr90	2/14/86	T-6304	1.43	812	uCi/L	L	FEED	RAW	Sr 89/90	3.00E+07	2.43E+07		
AW102	Sr90	2/10/86	T-5580	1.37	773	uCi/L	L	FEED	RAW	Sr 89/90	2.86E+07	2.31E+07		
AW102	Sr90	2/11/86	T-5581	1.43	774	uCi/L	L	FEED	RAW	Sr 89/90	2.86E+07	2.31E+07		
AN104	Sr90	1/18/85	R-3184	1.38	778	uCi/L	L	ALIQUOT	RAW	Sr 89/90	2.88E+07	2.27E+07		
AW102	Sr90	11/4/82		1.264	792	uCi/L	F	FILTRATE	RAW	Sr 89/90	2.93E+07	2.19E+07		
AW102	Sr90	12/7/82	3256	1.264	792	uCi/L	F	FILTRATE	RAW	Sr 89/90	2.93E+07	2.19E+07		
AP102	Sr90	4/1/93	BOB2N4	1.21	0.589	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.18E+07	2.09E+07		
AP102	Sr90	4/1/93	BOB2N4	1.21	0.577	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.13E+07	2.05E+07		
AW102	Sr-90	4/1/83	4289	1.18	718	uCi/l	P	Supernate	Braun	Sr 89/90	2.66E+07	2.00E+07		
AW102	Sr90	4/1/83		1.18	718	uCi/L	L	LIQUID	RAW	Sr 89/90	2.66E+07	2.00E+07		
SY-101	Sr90	12/1/91	BOBB41	1.072	574	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	2.12E+07	1.97E+07		
AN101	Sr-90	3/27/85	R-3963	1.02	547	uCi/l	P	Supernate	Braun	Sr 89/90	2.02E+07	1.60E+07		
AN101	Sr90	12/19/90	R-8520	1.15	449	uCi/L	O	OTHER	RAW	Sr 89/90	1.66E+07	1.51E+07		
AW101	Sr90	11/20/94	R-2645		340	uCi/L	O	OTHER	RAW	Sr 89/90	1.26E+07	1.25E+07		
AW101	Sr90	11/9/84		1.024	428	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	1.58E+07	1.24E+07		
AW101	Sr-90	11/9/84	R-3185	1.024	425	uCi/l	P	Supernate	Braun	Sr 89/90	1.57E+07	1.23E+07		
AW101	Sr90	11/9/84	R-3185	1.024	425	uCi/L	L		RAW	Sr 89/90	1.57E+07	1.23E+07		
AN106	Sr90	2/27/87	R-2456	1.02	396	uCi/L	L	NO SOLIDS	RAW	Sr 89/90	1.47E+07	1.21E+07		
Minimum Plot Limit: 1.00E+07 Bq/L														
AP105	Sr90	3/10/93		1.336	0.208	uCi/mL	P	composite	RAW	Sr 89/90	7.70E+06	7.37E+06		
AW103	Sr90	3/20/83		1.265	257	uCi/L	L	LIQUID	RAW	Sr 89/90	9.51E+06	7.17E+06		
AW103	Sr-90	3/20/83	RAT-AW103-4	1.281	251	uCi/l	F	Filtrate	Braun	Sr 89/90	9.29E+06	7.00E+06		
AW102	Sr89/90	8/1/88					P	Supernatant	Wastren	Sr 89/90	7.14E+06	6.12E+06		
AW102	Sr90	8/4/88	T-1521A	1.16	193	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	7.14E+06	6.12E+06		
AW102	Sr90	6/4/88		1.1602	193	uCi/L	O	OTHER	RAW	Sr 89/90	7.14E+06	6.10E+06		
AW102	Sr-89/90	4/20/88	T-1521	1.16	193	uCi/l	P	Supernate	Braun	Sr 89/90	7.14E+06	6.08E+06		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
ASA Value: 4.79E+09 Bq/L

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Waste Characterization Sample Information										Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID	
AW102	Sr90	12/1/93	B0BC12	1.026	153	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	5.66E+06	5.52E+06		
AW102	Sr90	11/18/92	R9418		153	uCi/L	U	UNKNOWN	RAW	Sr 89/90	5.66E+06	5.38E+06		
AW102	Sr90	1/16/85	R-3483	1.43	106	uCi/L	F	FILTRATE	RAW	Sr 89/90	3.92E+06	3.09E+06		
AW101	Sr90	3/30/86	T-7697	0.997	45.9	uCi/L	L		RAW	Sr 89/90	1.70E+06	1.38E+06		
AW103	Sr-89/90	8/1/84	2838		40.1	uCi/l	P	Supernate	Braun	Sr 89/90	1.48E+06	1.16E+06		
AW106	Sr90	12/1/93	B08VS6	1.0867	29.5	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	1.09E+06	1.06E+06		
AW106	Sr90	12/1/93	B08VS6	1.0867	29.4	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	1.09E+06	1.06E+06		
AW101	Sr90	3/30/86	T-7698	0.993	32.8	uCi/L	L		RAW	Sr 89/90	1.21E+06	9.83E+05		
AW102	Sr90	12/1/93	B0BC12	1.026	25	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	9.25E+05	9.01E+05		
AW105	Sr-89/90	8/17/88	T-805	1.01	28.3	uCi/l	L	Liquor	Braun	Sr 89/90	1.05E+06	8.99E+05		
AW105	Sr89/90	7/1/88					P	Supernatant	Wastren	Sr 89/90	1.05E+06	8.98E+05		
AW103	Sr90	4/5/88	T-7966	1.0081	26.3	uCi/L	L	NO SOLIDS	RAW	Sr 89/90	9.73E+05	8.28E+05		
AW105	Sr-89/90	4/5/88	T-7966	1.008	26.3	uCi/l	P	Supernate	Braun	Sr 89/90	9.73E+05	8.28E+05		
AN106	Sr-90	11/28/83	8501		28.71	uCi/l	P	Supernate	Braun	Sr 89/90	1.06E+06	8.14E+05		
AW102	Sr90	12/1/93	B0BC12	1.026	20.1	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	7.44E+05	7.25E+05		
AN101	Sr90	7/4/88	T-671	0.966	20	uCi/L	P	SUPERNATE	RAW	Sr 89/90	7.40E+05	6.33E+05		
AW102	Sr-89/90	4/20/88	T-8435	1.04	13.5	uCi/l	P	Supernate	Braun	Sr 89/90	5.00E+05	4.25E+05		
AW102	Sr90	4/20/88	T8435	1.0371	13.5	uCi/L	O	OTHER	RAW	Sr 89/90	5.00E+05	4.25E+05		
AW103	Sr90	4/20/88	T-8435	1.0371	13.5	uCi/L	O	OTHER	RAW	Sr 89/90	5.00E+05	4.25E+05		
AW102	Sr90	12/1/93	B0BC12	1.026	10.31	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	3.81E+05	3.72E+05		
AW102	Sr90	11/18/92	R9415		10.3	uCi/L	U	UNKNOWN	RAW	Sr 89/90	3.81E+05	3.63E+05		
AW102	Sr90	11/18/92	R9417		10.3	uCi/L	U	UNKNOWN	RAW	Sr 89/90	3.81E+05	3.63E+05		
AW102	Sr90	12/1/93	B0BC12	1.026	9.41	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	3.48E+05	3.39E+05		
AP103	Sr-89/90	1/30/88	RAT-AP103-3	0.9781	10.7	uCi/l	P	Supernate	Braun	Sr 89/90	3.96E+05	3.35E+05		
AP103	Sr89/90	1/1/88					P	Supernatant	Wastren	Sr 89/90	3.96E+05	3.35E+05		
AW102	Sr90	12/1/93	B0BC12	1.026	8.1	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	3.00E+05	2.92E+05		
AW102	Sr90	11/18/92	R9416		8.1	uCi/L	U	UNKNOWN	RAW	Sr 89/90	3.00E+05	2.85E+05		
AP106	Sr90	3/1/93	B0B2B8	0.9965	0.00631	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.33E+05	2.23E+05		
AW102	Sr90	11/28/83	8556	1.124	7.65	uCi/L	L	LIQUID	RAW	Sr 89/90	2.83E+05	2.17E+05		
AN106	Sr-90	11/28/83	8500		6.56	uCi/l	P	Supernate	Braun	Sr 89/90	2.43E+05	1.86E+05		
AW105	Sr-90	5/1/86	RAT-AW105-2	1.079	0.00337	uCi/gm	P	Supernate	Braun	Sr 89/90	1.35E+05	1.09E+05		
AW103	Sr-89/90	8/1/84	2836		3.47	uCi/l	P	Supernate	Braun	Sr 89/90	1.28E+05	1.00E+05		
AP103	Sr90	11/1/91	B0BC21	1.0027	2.62	uCi/L	L	DUPLICATE RESULT	TCD	Sr 89/90	9.69E+04	8.98E+04		
AP103	Sr90	11/1/91	B0BC21	1.0027	2.62	uCi/L	L	PRIMARY RESULT	TCD	Sr 89/90	9.69E+04	8.98E+04		
AP106	Sr90	3/1/93	B0B2B9	0.9975	0.00209	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	7.73E+04	7.40E+04		
AP106	Sr90	3/1/93	B0B2B9	0.9975	0.00136	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	5.03E+04	4.82E+04		
AW103	Sr-90	8/1/84	2750		1.45	uCi/l	P	Supernate	Braun	Sr 89/90	5.37E+04	4.18E+04		
AP106	Sr90	3/1/93	B0B2B8	0.9965	0.00093	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	3.45E+04	3.30E+04		
AP106	Sr90	3/16/93		0.996	0.0007	uCi/mL	P	composite	RAW	Sr 89/90	2.58E+04	2.47E+04		
AW102	Sr90	11/28/83	8555	1.0219	0.823	uCi/L	L	LIQUID	RAW	Sr 89/90	3.05E+04	2.33E+04		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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Sample Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
AP101	Sr90	7/1/93	BOB2K7	1.1	0.00056	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.08E+04	2.01E+04	
SY102	Sr89/90	6/1/89					P	Supernatant	Wastren	Sr 89/90	1.96E+04	1.71E+04	
AP106	Sr90	3/1/93	BOB2B8	0.9965	0.00039	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.44E+04	1.38E+04	
AP106	Sr90	3/1/93	BOB2B8	0.9965	0.00038	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.42E+04	1.36E+04	
AP106	Sr90	3/1/93	BOB2C1	0.996	0.00038	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.39E+04	1.33E+04	
AP106	Sr90	3/1/93	BOB2C2	0.997	0.00023	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	8.47E+03	8.11E+03	
AP106	Sr90	3/1/93	BOB2C2	0.997	0.00022	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	8.10E+03	7.75E+03	
AP106	Sr90	3/1/93	BOB2C3	0.9925	0.00019	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	6.88E+03	6.59E+03	
AP106	Sr90	3/1/93	BOB2C3	0.9925	0.00018	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	6.62E+03	6.34E+03	
AP106	Sr90	3/1/93	BOB2B8	0.9965	0.00016	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	5.99E+03	5.74E+03	
AP106	Sr90	3/1/93	BOB2C1	0.996	0.00014	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	5.18E+03	4.96E+03	
AW103	Sr90	6/24/88	T-8200	1.04	0.152	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	5.62E+03	4.81E+03	
AW103	Sr90	4/10/88	T-8200	1.04	0.152	uCi/L	L	NO SOLIDS	RAW	Sr 89/90	5.62E+03	4.79E+03	
AW103	Sr-89/90	4/9/88	T-8200	1.04	0.152	uCi/l	P	Supernate	Braun	Sr 89/90	5.62E+03	4.79E+03	
AP106	Sr90	3/1/93	BOB2B8	0.9965	0.00014	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	5.00E+03	4.78E+03	
AW103	Sr90	1/1/89			0.148	uCi/L	L		RAW	Sr 89/90	5.48E+03	4.74E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.51E+03	4.36E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.51E+03	4.36E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.51E+03	4.36E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.51E+03	4.36E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00012	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.51E+03	4.36E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00011	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	4.22E+03	4.08E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00011	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	4.22E+03	4.08E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00011	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	4.22E+03	4.08E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00011	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	4.22E+03	4.08E+03	
AP107	Sr90	8/1/93	B08W54	1.1	0.00011	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	4.22E+03	4.08E+03	
AP106	Sr90	3/1/93	BOB2B9	0.9975	8.1E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	3.01E+03	2.88E+03	
AP106	Sr90	3/1/93	BOB2B9	0.9975	8.1E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.98E+03	2.85E+03	
AP106	Sr90	3/1/93	BOB2C0	0.9995	7.5E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.76E+03	2.64E+03	
AP106	Sr90	3/1/93	BOB2C0	0.9995	7.3E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.71E+03	2.59E+03	
AP106	Sr90	3/1/93	BOB2C5	0.994	6.1E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.24E+03	2.15E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Liquids [Sketch ES-VAL-CR41]
 ASA Value: 4.79E+09 Bq/L

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aste Characterization Sample Information										Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID	
AP106	Sr90	3/1/93	BOB2G2	0.9965	5.6E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	2.06E+03	1.98E+03		
AP106	Sr90	3/1/93	BOB2G2	0.9965	5.6E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.06E+03	1.97E+03		
AP106	Sr90	3/1/93	BOB2C1	0.996	5.4E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	2.00E+03	1.92E+03		
AP106	Sr90	3/1/93	BOB2C5	0.994	5.4E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	1.98E+03	1.89E+03		
AW105	Sr-89/90	1/1/85	R-4037	0.974	0.0546	uCi/l	L	Liquor	Braun	Sr 89/90	2.02E+03	1.59E+03		
AP106	Sr90	3/1/93	BOB2C1	0.996	3.1E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	1.16E+03	1.11E+03		
AP102	Sr90	5/18/88	R-8469		0.0341	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	1.26E+03	1.08E+03		
AP104	Sr-90	3/1/88	RAT-AP104-1B	1.01	0.0343	uCi/l	P	Supernate	Braun	Sr 89/90	1.27E+03	1.08E+03		
AP102	Sr90	5/18/88	R-8472		0.0332	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	1.23E+03	1.05E+03		
AP104	Sr89/90	6/1/88					P	Supernatant	Wastren	Sr 89/90	1.21E+03	1.03E+03		
AP102	Sr90	5/18/88	R-8473		0.0322	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	1.19E+03	1.02E+03		
AP104	Sr90	3/1/88	WI-549	1.02	0.0326	uCi/L	L	LIQUID	RAW	Sr 89/90	1.21E+03	1.02E+03		
AP102	Sr90	5/18/88	R-8471		0.032	uCi/L	P	SUPERNATANT	RAW	Sr 89/90	1.18E+03	1.01E+03		
AP104	Sr90	3/1/88	WI-550	1.05	0.0316	uCi/L	L	LIQUID	RAW	Sr 89/90	1.17E+03	9.92E+02		
AW103	Sr90	1/23/86			0.029	uCi/L	L	WATER	RAW	Sr 89/90	1.07E+03	8.66E+02		
AW102	Sr90	9/22/83	R7812	1.021	0.0239	uCi/L	L	LIQUID	RAW	Sr 89/90	8.84E+02	6.75E+02		
AW102	Sr90	9/22/83	R7811	1.015	0.0214	uCi/L	L	LIQUID	RAW	Sr 89/90	7.92E+02	6.04E+02		
AP104	Sr-90	3/1/88	RAT-AP104-1A	1.03	0.0174	uCi/l	P	Supernate	Braun	Sr 89/90	6.44E+02	5.46E+02		
AP106	Sr90	3/1/93	BOB2C2	0.997	1.1E-05	uCi/mL	L	DUPLICATE RESULT	TCD	Sr 89/90	4.00E+02	3.82E+02		
AP106	Sr90	3/1/93	BOB2C2	0.997	1E-05	uCi/mL	L	PRIMARY RESULT	TCD	Sr 89/90	3.74E+02	3.58E+02		
AW-103	Sr90						L		TRAC	Sr 89/90		6.41E-01		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Solids [Sketch ES-VAL-CR42]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW101	Sr90	11/20/84	R-2644		2E+06	uCi/L	S	SOLIDS	RAW	Sr-89/90	7.07E+10	7.05E+10	14
ASA Value: 3.57E+10 Bq/L													
SY102	Sr-90	10/5/84	R-3036		771	uCi/gm	S	Solids	Braun	Sr-89/90	4.56E+10	3.57E+10	*
Preliminary ASA Value: 2.50E+10 Bq/L													
AN102	Sr89/90	8/1/91					G	Sludge	Wastren	Sr-89/90	2.65E+10	2.44E+10	
AN107	Sr90	3/14/85	R-3638		284	uCi/g	S	Solids	RAW	Sr-89/90	1.68E+10	1.33E+10	
SY102	Sr-89/90	11/1/84	R-3318B	1.61	262	uCi/gm	S	Supernate/Solids	Braun	Sr-89/90	1.56E+10	1.22E+10	
SY102	Sr-89/90	11/1/84	R-3316B	1.53	253	uCi/gm	S	Supernate/Solids	Braun	Sr-89/90	1.43E+10	1.12E+10	
SY102	Sr-89/90	11/1/84	R-3317B	1.59	188	uCi/gm	S	Supernate/Solids	Braun	Sr-89/90	1.11E+10	8.66E+09	
AN102	Sr-89/90	3/14/85	R-3640		160	uCi/gm	S	Solids	Braun	Sr-89/90	9.47E+09	7.49E+09	
AN107	Sr90	5/13/94	R4048	1.473	121	uCi/g	G	Sludge	RAW	Sr-89/90	6.59E+09	6.49E+09	
SY102	Sr89/90	1/10/85	R-3316	1.54	221000	uCi/L	S	Solids	RAW	Sr-89/90	8.18E+09	6.44E+09	
SY102	Sr-89/90	1/10/85	R-3316	1.54	221000	uCi/l	S	Supernate/Solids	Braun	Sr-89/90	8.18E+09	6.44E+09	
AN107	Sr90	5/13/94	R4047	1.464	108	uCi/g	G	Sludge	RAW	Sr-89/90	5.85E+09	5.76E+09	
SY-101	Sr90	12/1/91	BOBBR6	1.6	98	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	5.80E+09	5.39E+09	
SY-101	Sr90	12/1/91	BOBBB5	1.6	76.1	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	4.51E+09	4.18E+09	
SY102	Sr89/90	10/1/88					G	Sludge	Wastren	Sr-89/90	4.51E+09	3.88E+09	
SY102	Sr-90	10/1/88	102-SY-4B	1.8	67.6	uCi/gm	G	Sludge	Braun	Sr-89/90	4.50E+09	3.87E+09	
SY-101	Sr90	12/1/91	BOBBB5	1.6	66.4	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	3.93E+09	3.65E+09	
AN102	Sr90	2/28/85	R-3640	1.39	101000	uCi/L	S	Solids	RAW	Sr-89/90	3.74E+09	2.95E+09	
SY101	Sr89/90	5/1/91					T	Crust	Wastren	Sr-89/90	2.46E+09	2.25E+09	
SY-101	Sr90	12/1/91	BOBB41	1.6	40.3	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	2.39E+09	2.22E+09	
SY-101	Sr90	12/1/91	BOBB95	1.6	37.2	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	2.20E+09	2.05E+09	
SY101	Sr89/90	5/1/91					S	Bulk, nonconv layr	Wastren	Sr-89/90	2.22E+09	2.03E+09	
SY-101	Sr90	12/1/91	BOB280	1.331	44.1	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	2.17E+09	2.02E+09	
SY101	Sr89/90	5/1/91			37	uCi/g	S	Core Sample	RAW	Sr-89/90	2.19E+09	2.01E+09	
SY-101	Sr90	12/1/91	BOBB41	1.6	36.2	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	2.14E+09	1.99E+09	
SY-101	Sr90	12/1/91	BOBB41	1.6	34.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	2.07E+09	1.92E+09	
SY101	Sr89/90	5/1/91					S	Bulk, nonconv layr	Wastren	Sr-89/90	1.92E+09	1.76E+09	
SY-101	Sr90	12/1/91	BOBB23	1.6	31.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.89E+09	1.75E+09	
SY-101	Sr90	12/1/91	BOB280	1.331	38.1	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.88E+09	1.74E+09	
SY-101	Sr90	12/1/91	BOBB23	1.6	31.6	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.87E+09	1.74E+09	
SY-101	Sr90	12/1/91	BOBB95	1.6	31.1	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.84E+09	1.71E+09	
SY-101	Sr90	12/1/91	BOB280	1.331	37	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.82E+09	1.69E+09	
SY-101	Sr90	12/1/91	BOB279	1.306	34.9	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.69E+09	1.57E+09	
SY-101	Sr90	12/1/91	BOB282	1.235	36.2	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.65E+09	1.54E+09	
SY-101	Sr90	12/1/91	BOBBC7	1.6	27.4	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.62E+09	1.51E+09	
SY-101	Sr90	12/1/91	BOB282	1.235	35.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.61E+09	1.50E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Solids [Sketch ES-VAL-CR42]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY-101	Sr90	12/1/91	BOB280	1.331	32.8	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.61E+09	1.50E+09	
SY-101	Sr90	12/1/91	BOB282	1.235	34.6	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.58E+09	1.47E+09	
SY-101	Sr90	12/1/91	BOBBC7	1.6	26.6	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.57E+09	1.46E+09	
SY-101	Sr90	12/1/91	BOB279	1.306	32.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.56E+09	1.45E+09	
SY-101	Sr90	12/1/91	BOB282	1.235	33.5	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.53E+09	1.42E+09	
AW103	Sr90	1/1/89			27.1	uCi/g	S	SOLIDS	RAW	Sr-89/90	1.60E+09	1.39E+09	
SY-101	Sr90	12/1/91	BOB281	1.244	31.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.47E+09	1.36E+09	
SY-101	Sr90	12/1/91	BOB279	1.306	30.4	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.47E+09	1.36E+09	
SY-101	Sr90	12/1/91	BOB281	1.244	31.8	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.46E+09	1.36E+09	
SY-101	Sr90	12/1/91	BOB279	1.306	30.4	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.47E+09	1.36E+09	
SY-101	Sr90	12/1/91	BOB281	1.244	31.6	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.45E+09	1.35E+09	
SY-101	Sr90	12/1/91	BOB281	1.244	30.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.42E+09	1.32E+09	
AW103	Sr90	1/1/89			25.3	uCi/g	S		RAW	Sr-89/90	1.50E+09	1.30E+09	
AW103	Sr90	1/1/89			25.2	uCi/g	S	SOLIDS	RAW	Sr-89/90	1.49E+09	1.29E+09	
SY-101	Sr90	12/1/91	BOBBX7	1.6	23.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.38E+09	1.28E+09	
SY-101	Sr90	12/1/91	BOBBQ6	1.6	23	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.36E+09	1.26E+09	
SY-101	Sr90	12/1/91	BOBBD5	1.6	22.5	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.33E+09	1.24E+09	
SY-101	Sr90	12/1/91	BOBBX7	1.6	22.5	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.33E+09	1.24E+09	
SY-101	Sr90	12/1/91	BOBBX7	1.6	21.2	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	1.26E+09	1.17E+09	
SY-101	Sr90	12/1/91	BOBBD5	1.6	21.3	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.26E+09	1.17E+09	
SY-101	Sr90	12/1/91	BOBBX7	1.6	20.6	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	1.22E+09	1.13E+09	
AW104	Sr-90	11/9/84	R-3206	1.41	36300	uCi/l	G	Sludge	Braun	Sr-89/90	1.34E+09	1.05E+09	
AW103	Sr90	1/1/89			18.2	uCi/g	S	SOLIDS	RAW	Sr-89/90	1.08E+09	9.33E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	14.7	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	8.70E+08	8.08E+08	
AN103	Sr90	9/25/87	TK092587	1.56	0.0244	Ci/L	G	Sludge	RAW	Sr-89/90	9.03E+08	7.58E+08	
SY-101	Sr90	12/1/91	BOBBR2	1.6	13	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	7.70E+08	7.15E+08	
AW103	Sr90	1/1/89			13.1	uCi/g	S		RAW	Sr-89/90	7.76E+08	6.72E+08	
AN104	Sr90	1/15/85	R-3307	1.46	21600	uCi/L	R	SLURRY	RAW	Sr-89/90	7.99E+08	6.29E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	11.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	6.69E+08	6.21E+08	
SY-101	Sr90	12/1/91	BOB9Z7	1.6	11.1	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	6.57E+08	6.10E+08	
SY-101	Sr90	12/1/91	BOB9Z7	1.6	10.9	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	6.45E+08	5.99E+08	
AW103	Sr90	1/1/89			11.6	uCi/g	S	SOLIDS	RAW	Sr-89/90	6.87E+08	5.95E+08	
SY-101	Sr90	12/1/91	BOB9Z7	1.6	9.8	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	5.80E+08	5.39E+08	
AN104	Sr90	1/15/85	R-3413	1.45	18000	uCi/L	R	SLURRY	RAW	Sr-89/90	6.66E+08	5.24E+08	
SY101	Sr89/90	5/1/91					S	Solids	Wastren	Sr-89/90	5.59E+08	5.12E+08	
SY101	Sr89/90	5/1/91					S	Solids	Wastren	Sr-89/90	5.03E+08	4.61E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	8	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	4.74E+08	4.40E+08	
AN103	Sr89/90	2/1/90					R	Slurry	Wastren	Sr-89/90	4.81E+08	4.27E+08	
SY101	Sr-89/90	5/30/86	R-6394	1.69	13500	uCi/l	R	Slurry	Braun	Sr-89/90	5.00E+08	4.06E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Solids [Sketch ES-VAL-CR42]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
SY101	Sr89/90	5/30/86	R-6394		13500	uCi/L	R	Slurry	RAW	Sr-89/90	5.00E+08	4.06E+08	
SY101	Sr89/90	5/30/86	R-6394	1.69	13500	uCi/L	S	Bottom Sample	RAW	Sr-89/90	5.00E+08	4.06E+08	
AW105	Sr-90	5/1/86	RAT-AW105-2B	1.2	10.8	uCi/gm	G	Sludge	Braun	Sr-89/90	4.80E+08	3.89E+08	
SY101	Sr89/90	8/14/80	R-6394		13500	uCi/L	R	Slurry	RAW	Sr-89/90	5.00E+08	3.54E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	6.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	3.73E+08	3.46E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	6.3	uCi/g	S	DUPLICATE RESULT	TCD	Sr-89/90	3.73E+08	3.46E+08	
SY-101	Sr90	12/1/91	BOB9X3	1.6	6.3	uCi/g	S	PRIMARY RESULT	TCD	Sr-89/90	3.73E+08	3.46E+08	
AW101	Sr90	6/23/86	R-9893	1.37	11400	uCi/L	R	SLURRY	RAW	Sr-89/90	4.22E+08	3.44E+08	
AW101	Sr90	6/30/86	R-9895	1.57	11400	uCi/L	R	SLURRY	RAW	Sr-89/90	4.22E+08	3.44E+08	
AW103	Sr90	1/1/89			6.47	uCi/g	I	COMPOSITE	RAW	Sr-89/90	3.83E+08	3.32E+08	
AN104	Sr90	1/15/85	R-3415	1.4	11000	uCi/L	R	SLURRY	RAW	Sr-89/90	4.07E+08	3.20E+08	
AW101	Sr90	6/26/86	R-9894	1.5	10600	uCi/L	R	SLURRY	RAW	Sr-89/90	3.92E+08	3.20E+08	
AW101	Sr90	1/13/86	R-7695	1.29	10700	uCi/L	R	SLURY	RAW	Sr-89/90	3.96E+08	3.19E+08	
AN104	Sr90	1/15/85	R-3305	1.54	9710	uCi/L	R	SLURRY	RAW	Sr-89/90	3.59E+08	2.83E+08	
AW103	Sr90	1/1/89			4.98	uCi/g	S		RAW	Sr-89/90	2.95E+08	2.55E+08	
SY101	Sr89/90	5/30/86	R-6395	1.6	7200	uCi/L	R	Slurry	RAW	Sr-89/90	2.66E+08	2.17E+08	
SY101	Sr89/90	5/30/86	R-6395		7200	uCi/L	Y	Slurry/Sludge	RAW	Sr-89/90	2.66E+08	2.17E+08	
SY101	Sr-89/90	5/30/86	R-6395	1.17	7200	uCi/l	R	Slurry	Braun	Sr-89/90	2.66E+08	2.17E+08	
SY101	Sr-89/90	5/30/86	R-6395	1.29	7200	uCi/l	R	Slurry	Braun	Sr-89/90	2.66E+08	2.17E+08	
SY103	Sr-89/90	7/2/85	R-5256	1.35	6850	uCi/l	R	Slurry/Solids	Braun	Sr-89/90	2.53E+08	2.02E+08	
SY101	Sr89/90	8/14/80	R-6395		7200	uCi/L	R	Slurry	RAW	Sr-89/90	2.66E+08	1.89E+08	
SY101	Sr89/90	5/30/86	R-6396	1.33	6050	uCi/L	R	Slurry	RAW	Sr-89/90	2.24E+08	1.82E+08	
SY101	Sr89/90	5/30/86	R-6396		6050	uCi/L	Y	Slurry/Sludge	RAW	Sr-89/90	2.24E+08	1.82E+08	
AP102	Sr90	4/1/93	BOB2T9	1.2	4.93	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	1.82E+08	1.75E+08	
AP102	Sr90	4/1/93	BOB2T9	1.2	4.86	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	1.80E+08	1.72E+08	
SY103	Sr89/90	7/2/85	R-5256	1.47	5780	uCi/L	R	Slurry	RAW	Sr-89/90	2.14E+08	1.70E+08	
AW103	Sr90	1/1/89			3.16	uCi/g	S		RAW	Sr-89/90	1.87E+08	1.62E+08	
SY101	Sr89/90	4/28/77		1.389	6540	uCi/L	R	Slurry	RAW	Sr-89/90	2.42E+08	1.58E+08	
SY101	Sr89/90	4/28/77		1.389	6540	uCi/L	R	Slurry	RAW	Sr-89/90	2.42E+08	1.58E+08	
SY101	Sr89/90	8/14/80	R-6396		6050	uCi/L	R	Slurry	RAW	Sr-89/90	2.24E+08	1.58E+08	
AW103	Sr90	1/1/89			2.97	uCi/g	S		RAW	Sr-89/90	1.76E+08	1.52E+08	
AW101	Sr90	7/2/86	R-9896	1.53	4450	uCi/L	R	SLURRY	RAW	Sr-89/90	1.65E+08	1.34E+08	
AW101	Sr90	7/6/86	R-9897	1.49	4330	uCi/L	R	SLURRY	RAW	Sr-89/90	1.60E+08	1.31E+08	
SY103	Sr-89/90	7/2/85	R-5257	1.5	3930	uCi/l	R	Slurry/Solids	Braun	Sr-89/90	1.45E+08	1.16E+08	
SY103	Sr89/90	7/1/85					R	Slurry	Wastren	Sr-89/90	1.37E+08	1.09E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
SY103	Sr89/90	6/24/85	R-5255	1.69	3210	uCi/L	R	Slurry	RAW	Sr-89/90	1.19E+08	9.45E+07	
SY103	Sr-89/90	6/24/85	R-5255	1.69	3210	uCi/l	R	Slurry/Solids	Braun	Sr-89/90	1.19E+08	9.45E+07	
AW103	Sr-90	6/15/85	RAT-AW103-2A		3100	uCi/l	S	Solids	Braun	Sr-89/90	1.15E+08	9.12E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Solids [Sketch ES-VAL-CR42]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AW103	Sr90	6/15/83			3.1	mCi/L	S	SOLIDS	RAW	Sr-89/90	1.15E+08	8.69E+07	
AW102	Sr90	1/16/85	R-3482	1.43	2310	uCi/L	R	SLURRY	RAW	Sr-89/90	8.55E+07	6.73E+07	
AN105	Sr-90	11/9/84	RAT-AN105-1	1.434	2240	uCi/l	G	Sludge	Braun	Sr-89/90	8.29E+07	6.50E+07	
SY103	Sr89/90	7/2/85	R-5257	1.4	2140	uCi/L	R	Slurry	RAW	Sr-89/90	7.92E+07	6.30E+07	
AP102	Sr90	4/1/93	BOB2L8	1.21	1.75	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	6.48E+07	6.21E+07	
AW102	Sr90	1/16/85	R-3483	1.41	2010	uCi/L	R	SLURRY	RAW	Sr-89/90	7.44E+07	5.86E+07	
AP102	Sr90	4/1/93	BOB2L7	1.2	1.64	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	6.07E+07	5.82E+07	
AW102	Sr90	1/16/85	R-3485	1.45	1980	uCi/L	R	SLURRY	RAW	Sr-89/90	7.33E+07	5.77E+07	
AW103	Sr-89/90	8/1/84	2836B	1.517	1990	uCi/l	S	Solids	Braun	Sr-89/90	7.36E+07	5.73E+07	
AP102	Sr90	4/1/93	BOB2M5	1.19	1.61	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.96E+07	5.71E+07	
AP102	Sr90	4/1/93	BOB2L7	1.2	1.59	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.88E+07	5.64E+07	
AP102	Sr90	4/1/93	BOB2M0	1.2	1.58	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.85E+07	5.61E+07	
AP102	Sr90	4/1/93	BOB2N4	1.2	1.53	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.66E+07	5.43E+07	
AP102	Sr90	4/1/93	BOB2M3	1.2	1.53	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.66E+07	5.43E+07	
AP102	Sr90	4/1/93	BOB2T9	1.2	1.52	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.62E+07	5.39E+07	
AP102	Sr90	4/1/93	BOB2N4	1.2	1.5	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.55E+07	5.32E+07	
AP102	Sr90	4/1/93	BOB2L9	1.2	1.49	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.51E+07	5.29E+07	
AP102	Sr90	4/1/93	BOB2M3	1.2	1.48	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.48E+07	5.25E+07	
AP102	Sr90	4/1/93	BOB2M2	1.2	1.47	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.44E+07	5.22E+07	
AP102	Sr90	4/1/93	BOB2T9	1.2	1.47	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.44E+07	5.22E+07	
AW102	Sr90	1/16/85	R-3486	1.42	1790	uCi/L	R	SLURRY	RAW	Sr-89/90	6.62E+07	5.21E+07	
AP102	Sr90	4/1/93	BOB2L7	1.2	1.46	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.40E+07	5.18E+07	
AP102	Sr90	4/1/93	BOB2L9	1.2	1.46	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.40E+07	5.18E+07	
AP102	Sr90	4/1/93	BOB2M5	1.19	1.45	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.37E+07	5.14E+07	
AP102	Sr90	4/1/93	BOB2M3	1.2	1.45	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.37E+07	5.14E+07	
AP102	Sr90	4/1/93	BOB2M6	1.205	1.44	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.33E+07	5.11E+07	
AP102	Sr90	4/1/93	BOB2L7	1.2	1.43	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.29E+07	5.07E+07	
AP102	Sr90	4/1/93	BOB2M5	1.19	1.43	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.29E+07	5.07E+07	
AP102	Sr90	4/1/93	BOB2M7	1.2	1.42	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.25E+07	5.04E+07	
AP102	Sr90	4/1/93	BOB2M5	1.19	1.41	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.22E+07	5.00E+07	
AP102	Sr90	4/1/93	BOB2M0	1.2	1.41	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.22E+07	5.00E+07	
AP102	Sr90	4/1/93	BOB2M3	1.2	1.41	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.22E+07	5.00E+07	
AP102	Sr90	4/1/93	BOB2N4	1.2	1.4	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.18E+07	4.97E+07	
AP102	Sr90	4/1/93	BOB2L8	1.21	1.4	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.18E+07	4.97E+07	
AP102	Sr90	4/1/93	BOB2M1	1.205	1.4	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.18E+07	4.97E+07	
AP102	Sr90	4/1/93	BOB2M4	1.195	1.39	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.14E+07	4.93E+07	
AP102	Sr90	4/1/93	BOB2M6	1.205	1.39	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.14E+07	4.93E+07	
AP102	Sr90	4/1/93	BOB2M4	1.195	1.39	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.14E+07	4.93E+07	
AP102	Sr90	4/1/93	BOB2M1	1.205	1.38	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.11E+07	4.90E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Double-Shell Tank Solids [Sketch ES-VAL-CR42]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AP102	Sr90	4/1/93	BOB2N4	1.2	1.38	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.11E+07	4.90E+07	
AP102	Sr90	4/1/93	BOB2M0	1.2	1.37	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	5.07E+07	4.86E+07	
AP102	Sr90	4/1/93	BOB2M7	1.2	1.37	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.07E+07	4.86E+07	
AP102	Sr90	4/1/93	BOB2M0	1.2	1.36	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.03E+07	4.82E+07	
AP102	Sr90	4/1/93	BOB2M2	1.2	1.36	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	5.03E+07	4.82E+07	
AN103	Sr-90	1/25/85	R-3645	1.35	1590	uCi/l	G	Sludge	Braun	Sr-89/90	5.88E+07	4.63E+07	
AP102	Sr90	4/1/93	BOB2L8	1.21	1.25	uCi/mL	S	DUPLICATE RESULT	TCD	Sr-89/90	4.63E+07	4.43E+07	
AW102	Sr90	1/16/85	R-3487	1.48	1520	uCi/L	R	SLURRY	RAW	Sr-89/90	5.62E+07	4.43E+07	
AP102	Sr90	4/1/93	BOB2L8	1.21	1.23	uCi/mL	S	PRIMARY RESULT	TCD	Sr-89/90	4.55E+07	4.36E+07	
AW102	Sr90	2/10/86	R-8117		1310	uCi/L	R	SLURRY	RAW	Sr-89/90	4.85E+07	3.92E+07	
AW102	Sr90	2/11/86	R-8118	1.79	1230	uCi/L	R	SLURRY	RAW	Sr-89/90	4.55E+07	3.68E+07	
AW101	Sr-89/90	6/28/90	RAT-AW101-1	1.54	1085	uCi/l	I	Composite	Braun	Sr-89/90	4.01E+07	3.60E+07	
AW103	Sr-89/90	8/1/84	2838A	1.402	1100	uCi/l	S	Solids	Braun	Sr-89/90	4.07E+07	3.17E+07	
AN103	Sr90	1/18/85	R-3182		1030	uCi/L	G	Sludge	RAW	Sr-89/90	3.81E+07	3.00E+07	
AW102	Sr90	12/7/82	3256	1.262	960	uCi/L	R	SLURRY	RAW	Sr-89/90	3.55E+07	2.66E+07	
AW102	Sr90	4/23/84		1.485	928	uCi/L	S	SOLIDS	RAW	Sr-89/90	3.43E+07	2.66E+07	
AW102	Sr90	11/4/82		1.262	960	uCi/L	R	SLURRY	RAW	Sr-89/90	3.55E+07	2.65E+07	
AN104	Sr89/90	1/1/85					Y	Slurry/Sludge	Wastren	Sr-89/90	2.88E+07	2.27E+07	
AW102	Sr90	2/13/86	R-8119	1.51	715	uCi/L	R	SLURRY	RAW	Sr-89/90	2.65E+07	2.14E+07	
AW103	Sr90	1/1/89			0.38	uCi/g	S		RAW	Sr-89/90	2.25E+07	1.95E+07	
AW102	Sr90	2/14/86	R-8120	1.54	530	uCi/L	R	SLURRY	RAW	Sr-89/90	1.96E+07	1.58E+07	
AW103	Sr-89/90	8/1/84	2837	1.426	523	uCi/l	S	Solids	Braun	Sr-89/90	1.94E+07	1.51E+07	
AW102	Sr90	2/4/86	T-5578	1.47	424	uCi/L	R	SLURRY	RAW	Sr-89/90	1.57E+07	1.27E+07	
AW102	Sr-90	2/4/86	T-5578	1.47	424	uCi/l	R	Slurry	Braun	Sr-89/90	1.57E+07	1.27E+07	
AW102	Sr-90	2/4/86	T-5579	1.49	422	uCi/l	R	Slurry	Braun	Sr-89/90	1.56E+07	1.26E+07	
AW102	Sr90	2/4/86	T-5579	1.49	422	uCi/L	R	SLURRY	RAW	Sr-89/90	1.56E+07	1.26E+07	
AN102	Sr90	11/1/91		1.74	275	uCi/L	S	Solids	RAW	Sr-89/90	1.02E+07	9.43E+06	
AW103	Sr-89/90	8/1/84	2750B	1.415	319	uCi/l	S	Solids	Braun	Sr-89/90	1.18E+07	9.19E+06	
AN103	Sr-90	1/25/85	R-3644	1.36	310	uCi/l	G	Sludge	Braun	Sr-89/90	1.15E+07	9.04E+06	
AW103	Sr-90	3/20/83	RAT-AW103-3	1.265	257	uCi/l	R	Slurry	Braun	Sr-89/90	9.51E+06	7.17E+06	
SY101	Sr89/90	11/18/90			98	uCi/L	T	Crust Sample	RAW	Sr-89/90	3.63E+06	3.28E+06	
AN103	Sr-89/90	3/28/86	R-8190	1.48	89.4	uCi/l	G	Sludge	Braun	Sr-89/90	3.31E+06	2.68E+06	
AW103	Sr-90	3/20/83	RAT-AW103-4A	1.271	78.7	uCi/l	R	Slurry	Braun	Sr-89/90	2.91E+06	2.19E+06	
SY101	Sr89/90	6/7/77		1.389	81.3	uCi/L	R	Slurry	RAW	Sr-89/90	3.01E+06	1.97E+06	
SY101	Sr89/90	6/7/77		1.558	81.3	uCi/L	R	Slurry	RAW	Sr-89/90	3.01E+06	1.97E+06	
AP103	Sr90	1/3/92	R-949		2.62	uCi/L	I	Composite	RAW	Sr-89/90	9.69E+04	9.02E+04	
AP103	Sr90	1/3/92	R-949		2.62	uCi/L	I	Composite	RAW	Sr-89/90	9.69E+04	9.02E+04	
SY102	Sr89/90	8/19/89	T-5155		0.619	uCi/L	S	Solids	RAW	Sr-89/90	2.29E+04	2.01E+04	
AP102	Sr-90	4/29/88	R-8469		0.0341	uCi/l	I	Composite	Braun	Sr-89/90	1.26E+03	1.07E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Double-Shell Tank Liquid [Sketch ES-VAL-CR43]
 ASA Value: 4.79E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AW-106	Y90						L		TRAC	Y90		8.27E+09	4
SY-103	Y90						L		TRAC	Y90		6.44E+09	4
Preliminary ASA Value: 5.10E+09 Bq/L													26
ASA Value: 4.79E+09 Bq/L													22
SY-102	Y90						L		TRAC	Y90		3.43E+09	
SY-101	Y90						L		TRAC	Y90		2.32E+09	
Minimum Plot Limit: 1.00E+07 Bq/L													
AW-103	Y90						L		TRAC	Y90		9.08E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 Double-Shell Tank Solid [Sketch ES-VAL-CR44]
 ASA Value: 3.57E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 3.57E+10 Bq/L													22
Preliminary ASA Value: 2.50E+10 Bq/L													
SY101	Y90	5/30/86	R-6394		13500	uCi/L	R	Slurry	RAW	Y90	5.00E+08	5.00E+08	
SY101	Y90	5/30/86	R-6395		7200	uCi/L	R	Slurry	RAW	Y90	2.66E+08	2.66E+08	
SY101	Y90	5/30/86	R-6396		6050	uCi/L	R	Slurry	RAW	Y90	2.24E+08	2.24E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Aging Waste Tank Liquids [Sketch ES-VAL-CR45]
 ASA Value: 1.1E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Am241						L		TRAC	Am241		8.15E+06	4
AZ101	Am241						L		TRAC	Am241		2.75E+06	4
AY102	Am241						L		TRAC	Am241		2.29E+06	4
AY101	Am241	2/28/85	R-3641	1.11	3.03E+01	uCi/l	L	Supernate	Braun	Am241	1.12E+06	1.10E+06	*
ASA Value: 1.1E+06 Bq/L													
AZ102	Am241						L		TRAC	Am241		5.98E+05	4
Preliminary ASA Value: 5.85E+05 Bq/L													
AY101	Am241	2/28/85	R-3641	1.11	1.60E+01	uCi/L	P	supernatant	RAW	Am241	5.92E+05	5.83E+05	
AY101	Am241	2/15/84	R9280	1.085	1.34E+01	uCi/L	L	LIQUID	RAW	Am241	4.96E+05	4.87E+05	
AZ101	Am241	7/30/92			1.32E+01	uCi/L	P	supernate	RAW	Am241	4.88E+05	4.87E+05	
AZ101	Am241	9/1/89	RAT-AZ101-4A	1.2	1.10E-02	uCi/gm	L	Supernate	Braun	Am241	4.88E+05	4.84E+05	
AZ101	Am241	4/1/89					P	Supernatant	Wastren	Am241	4.88E+05	4.84E+05	
AZ102	Am241	5/6/86		1.09	6.70E-07	g/L	P	supernatant	RAW	Am241	8.03E+04	7.92E+04	
AZ102	Am241	11/5/85	RAT-AZ102-2A	1.09	6.70E-07	gm/l	L	Supernate	Braun	Am241	8.03E+04	7.92E+04	
AZ102	Am241	9/1/93		1.49	1.30E-03	uCi/g	P	supernate	RAW	Am241	7.17E+04	7.15E+04	
AZ102	Am241	8/1/89					P	Supernatant	Wastren	Am241	5.68E+04	5.63E+04	
AY101	Am241	2/28/85	R-3642	1.12	9.40E-01	uCi/L	P	supernatant	RAW	Am241	3.48E+04	3.42E+04	
AY101	Am241	2/15/84	R9281	1.099	7.80E-01	uCi/L	L	LIQUID	RAW	Am241	2.89E+04	2.84E+04	
Minimum Plot Limit: 1.00E+03 Bq/L													
AY102	Am241	2/12/90			6.67E-06	uCi/ml	P	SUPERNATANT	RAW	Am241	2.47E+02	2.45E+02	
AY102	Am241	9/30/88			3.40E+00	dpm/ml	P	SUPERNATANT	RAW	Am241	5.67E+01	5.61E+01	
AY102	Am241	2/12/90			1.50E-06	uCi/ml	P	SUPERNATANT	RAW	Am241	5.55E+01	5.51E+01	
AY102	Am241	2/1/90	RAT-AY102-1	1	1.50E-03	uCi/l	L	Supernate	Braun	Am241	5.55E+01	5.51E+01	
AY102	Am241	1/19/89			1.50E-06	uCi/mL	P	SUPERNATANT	RAW	Am241	5.55E+01	5.50E+01	
AY102	Am241	6/6/88					P	Supernatant	Wastren	Am241	5.55E+01	5.49E+01	

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Tank Waste Source Term Inventory Tabulation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Americium 241 Aging Waste Tank Solids [Sketch ES-VAL-CR46]
 ASA Value: 1.1E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 1.1E+10 Bq/L													
AZ101	Am241	5/1/89		1.62	1.91E+02	uCi/g	S	Solids	RAW	Am241	1.14E+10	1.13E+10	*
AZ102	Am241	9/1/93		1.49	1.01E+02	uCi/g	S	solids	RAW	Am241	5.57E+09	5.56E+09	
AZ102	Am241	8/1/89					S	Solids/Sludge	Wastren	Am241	5.57E+09	5.52E+09	
AZ101	Am241	7/30/92			1.00E+05	uCi/L	S	solids	RAW	Am241	3.70E+09	3.69E+09	
AZ101	Am241	9/1/89	RAT-AZ101-4B	1.7	5.90E+01	uCi/gm	S	Supernate/Solids	Braun	Am241	3.71E+09	3.68E+09	
AZ102	Am241	7/13/88	T-1521B		9.50E+04	uCi/L	S	dark brown solids	RAW	Am241	3.52E+09	3.48E+09	
AZ101	Am241	3/11/88	T-3494		8.70E+04	uCi/L	S	centrifuged solids	RAW	Am241	3.22E+09	3.18E+09	
AZ101	Am241	10/1/87	RAT-AZ101-6B		8.70E+04	uCi/l	S	Sludge/Composite	Braun	Am241	3.22E+09	3.18E+09	
AZ102	Am241	7/13/88	T-1521A		8.50E+04	uCi/L	S	dark brown solids	RAW	Am241	3.15E+09	3.11E+09	
AZ101	Am241	4/1/89					S	Solids/Sludge	Wastren	Am241	2.62E+09	2.60E+09	
AY102	Am241	1/29/88	1NL12988	1.3	2.70E+01	uCi/gm	S	Solids	Braun	Am241	1.30E+09	1.28E+09	
AY102	Am241	2/12/90			1.82E+01	uCi/g	S	SOLIDS	RAW	Am241	1.08E+09	1.07E+09	
AY102	Am241	1/19/89			1.82E+01	uCi/g	I	composite	RAW	Am241	1.08E+09	1.07E+09	
AY102	Am241	2/12/90	RAT-AY102-1	1.4	1.82E+01	uCi/gm	S	Composite	Braun	Am241	9.43E+08	9.35E+08	
AY102	Am241	6/17/88					S	Comp Solids/Sldg	Wastren	Am241	9.44E+08	9.34E+08	
AY102	Am241	9/30/88			4.04E+07	dpm/ml	I	Composite	RAW	Am241	6.73E+08	6.67E+08	
AZ102	Am241	7/6/88	T-3496A		8.18E+03	uCi/L	S	acid wash	RAW	Am241	3.03E+08	3.00E+08	
AZ102	Am241	3/11/88	A		8.18E+03	uCi/L	S	acid-dissolved solids	RAW	Am241	3.03E+08	2.99E+08	
AZ102	Am241	7/6/88	T-3496B		6.71E+03	uCi/L	S	acid wash	RAW	Am241	2.48E+08	2.46E+08	
AZ102	Am241	3/11/88	B		6.71E+03	uCi/L	S	acid-dissolved solids	RAW	Am241	2.48E+08	2.46E+08	
AZ102	Am241	5/6/86			1.79E-03	g/L	S	centrifuged	RAW	Am241	2.15E+08	2.12E+08	
AZ102	Am241	11/5/85	RAT-AZ102-2B	1.4	1.79E-03	gm/l	S	Solids	Braun	Am241	2.15E+08	2.11E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
AY101	Am241				5.00E-03	g-moles	S		TRAC	Am241	3.81E+07	3.73E+07	
AZ101	Am241	3/11/88	T-3494		5.20E+02	uCi/L	S	acid wash	RAW	Am241	1.92E+07	1.90E+07	
AZ101	Am241	12/4/86	S3		1.93E+02	uCi/L	R	slurry	RAW	Am241	7.13E+06	7.04E+06	
AZ102	Am241	11/5/85	RAT-AZ102-2	1.26	1.89E-05	gm/l	S	Slurry	Braun	Am241	2.27E+06	2.23E+06	
AY101	Am241	2/28/85	R-3642	1.12	1.96E+01	uCi/l	S	Supernate/Solids	Braun	Am241	7.25E+05	7.14E+05	
AY101	Am241	9/20/82		1.241	8.50E-02	uCi/L	I	composite	RAW	Am241	3.15E+03	3.08E+03	
AZ102	Am241	5/6/86		1.26	1.89E-05	uCi/L	G	sludge	RAW	Am241	6.99E-01	6.90E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Aging Waste Tank Liquids [Sketch ESK-VAL-CR47]
 ASA Value: N/A

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Cm244						L		TRAC	Cm243/244		2.45E+04	5
AY102	Cm244						L		TRAC	Cm243/244		1.46E+04	5
AZ101	Cm244						L		TRAC	Cm243/244		5.44E+03	5
AZ101	Cm243/244	7/30/92			1.44E-01	uCi/L	P	supernate	RAW	Cm243/244	5.33E+03	4.86E+03	5
AZ101	Cm244	4/1/89					P	Supernatant	Wastren	Cm243/244	5.33E+03	4.28E+03	5
AZ102	Cm244						L		TRAC	Cm243/244		2.60E+03	5
Minimum Plot Limit: 1.00E+02 Bq/L													
AZ101	Cm243/244	9/1/89	RAT-AZ101-4A	1.2	1.20E-04	uCi/l	L	Supernate	Braun	Cm243/244	4.44E+00	3.63E+00	5

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Curium 243/244 Aging Waste Tank Solids [Sketch ES-VAL-CR48]
 ASA Value: 6.5E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 6.5E+07 Bq/L													
AZ101	Cm243/244	5/1/89		1.62	1.31E+00	uCi/g	S	Solids	RAW	Cm243/244	7.85E+07	6.49E+07	*
AY102	Cm243/244	2/12/90			6.31E-01	uCi/g	S	SOLIDS	RAW	Cm243/244	3.74E+07	3.10E+07	
AY102	Cm243/244	1/19/89			6.31E-01	uCi/g	I	composite	RAW	Cm243/244	3.74E+07	2.98E+07	
AY102	Cm243/244	2/12/90	RAT-AY102-1B	1.4	6.31E-01	uCi/gm	S	Composite	Braun	Cm243/244	3.27E+07	2.71E+07	
AY102	Cm244	1/29/88	1NL12988	1.3	6.80E-01	uCi/gm	S	Solids	Braun	Cm243/244	3.27E+07	2.51E+07	
AZ101	Cm244	4/1/89					S	Solids/Sludge	Wastren	Cm243/244	2.97E+07	2.39E+07	
AZ102	Cm243/244	9/1/93		1.49	3.77E-01	uCi/g	S	solids	RAW	Cm243/244	2.08E+07	1.98E+07	
AZ102	Cm244	8/1/89					S	Solids/Sludge	Wastren	Cm243/244	2.08E+07	1.69E+07	
Minimum Plot Limit: 1.00E+05 Bq/L													
AZ101	Cm244	12/4/86	S2		1.60E+00	uCi/L	R	slurry	RAW	Cm243/244	5.92E+04	4.35E+04	
AZ101	Cm244	12/4/86	S1		1.50E+00	uCi/L	R	slurry	RAW	Cm243/244	5.55E+04	4.08E+04	
AZ101	Cm244	12/4/86	S3		1.44E+00	uCi/L	R	slurry	RAW	Cm243/244	5.33E+04	3.92E+04	
AZ101	Cm243/244	9/1/89	RAT-AZ101-4B	1.7	6.70E-01	uCi/l	S	Supernate/Solids	Braun	Cm243/244	2.48E+04	2.02E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Aging Waste Tank Liquids [Sketch ES-VAL-CR49]
 ASA Value: 9.7E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
Preliminary ASA Value: 4.60E+07 Bq/L													20
AY101	Co60	4/15/81		1.247	4.67E+02	uCi/L	F	filtrate	RAW	Co60	1.73E+07	2.86E+06	11
AZ102	Co60	4/26/78		1.299	2.59E+02	uCi/L	L		RAW	Co60	9.58E+06	1.08E+06	11
ASA Value: 9.7E+05 Bq/L													
AY101	Co60	2/28/85	R-3642	1.12	9.52E+01	uCi/L	P	supernatant	RAW	Co60	3.52E+06	9.70E+05	*
Minimum Plot Limit: 1.00E+05 Bq/L													
AZ101	Co60	4/26/78			1.00E+00	uCi/L	L		RAW	Co60	3.70E+04	4.15E+03	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cobalt 60 Aging Wate Tank Solids [Sketch ESK-VAL-CR50]
 ASA Value: 6.1E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 6.1E+08 Bq/L													
AZ102	Co60	5/3/90	L1		1.90E+01	uCi/g	I	Composite	RAW	Co60	1.12E+09	6.10E+08	*
AZ101	Co60	7/30/92			2.04E+04	uCi/L	S	solids	RAW	Co60	7.55E+08	5.50E+08	
AZ102	Co60	5/3/90	L4		1.69E+01	uCi/g	I	Composite	RAW	Co60	1.00E+09	5.43E+08	
AZ101	Co60	9/1/89	RAT-AZ101-4B	1.7	1.20E+01	uCi/gm	S	Supernate/Solids	Braun	Co60	7.55E+08	3.75E+08	
Preliminary ASA Value: 2.77E+08 Bq/L													
AZ101	Co60	4/1/89					S	Solids/Sludge	Wastren	Co60	5.33E+08	2.51E+08	
AY102	Co60	1/19/89			3.61E+00	uCi/g	I	composite	RAW	Co60	2.14E+08	9.80E+07	
AY102	Co60	2/12/90			1.44E+00	uCi/g	S	SOLIDS	RAW	Co60	8.52E+07	4.50E+07	
AY102	Co60	2/12/90	RAT-AY102-1B	1.4	1.44E+00	uCi/gm	S	Composite	Braun	Co60	7.46E+07	3.93E+07	
AZ102	Co60	5/3/90	L3		1.00E+00	uCi/g	I	Composite	RAW	Co60	5.92E+07	3.21E+07	
AY102	Co60	6/8/88					S	Comp Solids/Sldg	Wastren	Co60	7.47E+07	3.16E+07	
AY102	Co60	9/30/88			3.20E+06	dpm/ml	I	Composite	RAW	Co60	5.33E+07	2.35E+07	
Minimum Plot Limit: 1.00E+07 Bq/L													
AY101	Co60	4/15/81		1.261	3.90E+02	uCi/L	R	slurry	RAW	Co60	1.44E+07	2.39E+06	
AY101	Co60	2/28/85	R-3642	1.12	9.52E+01	uCi/l	S	Supernate/Solids	Braun	Co60	3.52E+06	9.70E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Aging Waste Tank Liquids [Sketch ES-VAL-CR51]
 ASA Value: 9.2E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
Preliminary ASA Value: 1.32E+11 Bq/L													
AY101	Cs137	8/8/75	T-6895		2.02E+07	uCi/gal	L	NO SOLIDS	RAW	Cs137	1.97E+11	1.26E+11	11
ASA Value: 9.2E+10 Bq/L													
AZ101	Cs137	5/1/89			2.54E+03	uCi/g	P	Supernatant	RAW	Cs137	1.03E+11	9.07E+10	*16
AZ101	Cs137	5/2/90	R-110388		2.27E+06	uCi/L	P	supernate	RAW	Cs137	8.40E+10	7.54E+10	
AZ101	Cs137	3/11/88	T-3493		2.27E+06	uCi/L	P	supernatant	RAW	Cs137	8.40E+10	7.18E+10	
AZ101	Cs137	7/30/92			2.04E+06	uCi/L	P	supernate	RAW	Cs137	7.55E+10	7.14E+10	
AZ101	Cs137	10/1/87	RAT-AZ101-6A		2.27E+06	uCi/l	L	Supernate	Braun	Cs137	8.40E+10	7.11E+10	
AZ101	Cs137	5/2/90	R-280187		2.11E+06	uCi/L	P	supernate	RAW	Cs137	7.81E+10	7.01E+10	
AZ101	Cs137	9/1/89	RAT-AZ101-4A	1.2	1.70E+03	uCi/gm	L	Supernate	Braun	Cs137	7.55E+10	6.68E+10	
AZ101	Cs137	4/8/86		1.17	2.20E+06	uCi/L	L	supernate	RAW	Cs137	8.14E+10	6.66E+10	
AZ101	Cs137	4/1/89					P	Supernatant	Wastren	Cs137	7.55E+10	6.61E+10	
AZ101	Cs137	1/28/87			2.11E+06	uCi/L	P	supernate	RAW	Cs137	7.81E+10	6.51E+10	
AZ101	Cs137	8/7/86	R9964/R0247	1.2	2.11E+06	uCi/l	L	Supernate	Braun	Cs137	7.81E+10	6.43E+10	
AZ102	Cs137	9/1/93		1.49	7.47E+02	uCi/g	P	supernate	RAW	Cs137	4.12E+10	3.99E+10	
AZ101	Cs137	9/13/85		1.17	1.33E+06	uCi/L	L	supernatant	RAW	Cs137	4.92E+10	3.97E+10	
AZ101	Cs137	9/13/85	RAT-AZ101-3A	1.17	1.33E+06	uCi/L	L	Supernate	Braun	Cs137	4.92E+10	3.97E+10	
AZ101	Cs137	9/13/85	B		1.29E+06	uCi/L	P	supernatant	RAW	Cs137	4.77E+10	3.85E+10	
AZ101	Cs137	9/13/85	A		1.24E+06	uCi/L	P	supernatant	RAW	Cs137	4.59E+10	3.70E+10	
AZ101	Cs137	5/2/90	R-101283		1.09E+06	uCi/L	P	supernate	RAW	Cs137	4.03E+10	3.62E+10	
AZ101	Cs137	12/10/86			1.09E+06	uCi/L	L		RAW	Cs137	4.03E+10	3.35E+10	
AZ101	Cs137	11/18/85	RAT-AZ101-1	1.17	1.09E+06	uCi/l	L	Supernate	Braun	Cs137	4.03E+10	3.27E+10	
AZ102	Cs137	10/31/90	R-880311		9.36E+05	uCi/L	P	supernate	RAW	Cs137	3.46E+10	3.15E+10	
AZ102	Cs137	7/6/88	T-3495		9.36E+05	uCi/L	P	supernate	RAW	Cs137	3.46E+10	2.98E+10	
AZ102	Cs137	3/11/88			9.36E+05	uCi/L	P	supernate	RAW	Cs137	3.46E+10	2.96E+10	
AZ102	Cs137	10/1/87	RAT-AZ102-3		9.36E+05	uCi/l	L	Supernate	Braun	Cs137	3.46E+10	2.93E+10	
AZ102	Cs137	8/1/89					P	Supernatant	Wastren	Cs137	3.26E+10	2.88E+10	
AZ102	Cs137	10/31/90	R-081287		7.35E+05	uCi/L	P	supernate	RAW	Cs137	2.72E+10	2.47E+10	
AZ102	Cs137	7/13/88	T-1520		7.35E+05	uCi/L	P	supernate	RAW	Cs137	2.72E+10	2.34E+10	
AZ102	Cs137	12/8/87			7.35E+05	uCi/L	P	supernate	RAW	Cs137	2.72E+10	2.31E+10	
AZ101	Cs137	11/18/85	RAT-AZ101-1A		5.95E+05	uCi/l	L	Supernate	Braun	Cs137	2.20E+10	1.78E+10	
AY102	Cs137	11/9/84	R-3214	1.03	5.93E+05	uCi/L	U	Unknown	RAW	Cs137	2.19E+10	1.74E+10	
AY102	Cs137	11/9/84	R-3214	1.03	5.93E+05	uCi/l	L	Supernate	Braun	Cs137	2.19E+10	1.74E+10	
AY101	Cs137	1/21/76	T-1706		2.30E+06	uCi/gal	L	NO SOLIDS	RAW	Cs137	2.25E+10	1.45E+10	
AY101	Cs137	5/25/77			5.05E+05	uCi/l	P	Supernatant	RAW	Cs137	1.87E+10	1.25E+10	
AY101	Cs137	12/22/75	T-799		1.93E+06	uCi/gal	L	NO SOLIDS	RAW	Cs137	1.89E+10	1.22E+10	
AZ101	Cs137	5/2/90	R-100984		3.60E+05	uCi/L	P	supernate	RAW	Cs137	1.33E+10	1.20E+10	
AY101	Cs137	7/17/75	T-6180		1.81E+06	uCi/gal	U	Unknown	RAW	Cs137	1.77E+10	1.13E+10	
AY101	Cs137	6/12/75	T-5322		1.81E+06	uCi/gal	L	NO SOLIDS	RAW	Cs137	1.77E+10	1.13E+10	
AY101	Cs137	7/5/78	295		4.40E-01	Ci/L	L	liquid	RAW	Cs137	1.63E+10	1.11E+10	
AY101	Cs137	11/13/75	T-9566		1.72E+06	uCi/gal	L	NO SOLIDS	RAW	Cs137	1.68E+10	1.08E+10	
AY101	Cs137	10/2/75	T-8529		1.72E+06	uCi/gal	L	NO SOLIDS	RAW	Cs137	1.68E+10	1.08E+10	
AY102	Cs137	9/21/79	1504	1.405	4.08E+05	uCi/L	L	LIQUIDS	RAW	Cs137	1.51E+10	1.06E+10	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Radionuclides
Cesium 137 Aging Waste Tank Liquids [Sketch ES-VAL-CR51]
ASA Value: 9.2E+10 Bq/L

Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L	Decayed ID
AZ102	Cs137	10/30/90	R-280783		3.14E+05	uCi/L	P	supernate	RAW	Cs137	1.16E+10	1.06E+10	
AY102	Cs137	9/21/79	1502	1.48	4.03E+05	uCi/L	L	LIQUIDS	RAW	Cs137	1.49E+10	1.05E+10	
AZ101	Cs137	6/1/84	RAT-AZ101-2A		3.60E+05	uCi/L	L	Supernate	Braun	Cs137	1.33E+10	1.04E+10	
AZ101	Cs137	9/10/84	2nd aliquot		3.50E+05	uCi/L	P	supernatant	RAW	Cs137	1.30E+10	1.02E+10	
AZ102	Cs137	8/27/81	RAT-AZ102-4B	1.39	3.75E-01	Ci/L	L	Supernate	Braun	Cs137	1.39E+10	1.02E+10	
AY102	Cs137	9/21/79		1.4	3.92E+05	uCi/L	L		RAW	Cs137	1.45E+10	1.02E+10	
AZ101	Cs137	6/1/84	RAT-AZ101-2B		3.50E+05	uCi/L	L	Supernate	Braun	Cs137	1.30E+10	1.02E+10	
Minimum Plot Limit: 1.00E+09 Bq/L													
AY102	Cs137	9/21/79	1503	1.404	3.78E+05	uCi/L	L	LIQUIDS	RAW	Cs137	1.40E+10	9.84E+09	
AY102	Cs137	6/18/82		1.056	3.50E+05	uCi/L	P	Supernatant	RAW	Cs137	1.30E+10	9.70E+09	
AY101	Cs137	4/15/81		1.247	3.41E+05	uCi/L	F	filtrate	RAW	Cs137	1.26E+10	9.20E+09	
AY101	Cs137	2/15/84	R9281	1.099	3.17E+05	uCi/L	L	LIQUID	RAW	Cs137	1.17E+10	9.13E+09	
AY102	Cs137	4/15/81		1.343	3.38E+05	uCi/L	F	FILTRATE	RAW	Cs137	1.25E+10	9.12E+09	
AY101	Cs137	8/30/78	1355	1.39	3.55E+05	uCi/L	P	supernatant	RAW	Cs137	1.31E+10	9.02E+09	
AZ102	Cs137	7/28/83		1.41	3.14E+05	uCi/L	P	supernatant	RAW	Cs137	1.16E+10	8.93E+09	
AZ102	Cs137	7/28/83	RAT-AZ102-4D	1.41	3.14E-01	Ci/L	L	Supernate	Braun	Cs137	1.16E+10	8.93E+09	
AZ102	Cs137	6/26/79	RAT-AZ102-4a	1.39	3.31E-01	Ci/L	L	Supernate	Braun	Cs137	1.22E+10	8.57E+09	
AY101	Cs137	2/15/84	R9280	1.085	2.89E+05	uCi/L	L	LIQUID	RAW	Cs137	1.07E+10	8.33E+09	
AY101	Cs137	6/5/78	7955	1.39	3.12E+05	uCi/L	L	LIQUID	RAW	Cs137	1.15E+10	7.88E+09	
AZ101	Cs137	5/2/90	R-281283		2.34E+05	uCi/L	P	supernate	RAW	Cs137	8.66E+09	7.78E+09	
AZ102	Cs137	9/20/82	RAT-AZ102-4C	1.39	2.20E-01	Ci/L	L	Supernate	Braun	Cs137	8.14E+09	6.14E+09	
AY102	Cs137	5/10/84	R9833	1.06	1.95E+05	uCi/L	L	Liquid	RAW	Cs137	7.22E+09	5.65E+09	
AY102	Cs137	5/10/84	R9834	1.06	1.91E+05	uCi/L	L	Liquid	RAW	Cs137	7.07E+09	5.53E+09	
AY101	Cs137	2/28/85	R-3641	1.11	1.40E+05	uCi/L	P	supernatant	Braun	Cs137	5.18E+09	4.13E+09	
AY101	Cs137	2/28/85	R-3641	1.11	1.40E+05	uCi/L	L	Supernate	Braun	Cs137	5.18E+09	4.13E+09	
AY101	Cs137	2/28/85	R-3642	1.12	1.33E+05	uCi/L	P	supernatant	RAW	Cs137	4.92E+09	3.92E+09	
AY101	Cs137	6/23/87		1.09	1.15E+05	uCi/L	P	supernatant	RAW	Cs137	4.26E+09	3.58E+09	
AY101	Cs137	3/1/87	RAT-AY101-1	1.09	1.15E+05	uCi/L	L	Supernate	Braun	Cs137	4.26E+09	3.55E+09	
AZ101	Cs137	8/27/81		1.143	1.29E+05	uCi/L	F	filtrate	RAW	Cs137	4.77E+09	3.51E+09	
AY101	Cs137	7/1/88					P	Supernatant	Wastren	Cs137	4.03E+09	3.47E+09	
AZ102	Cs137	2/4/85	R-3699	1.11	8.00E+04	uCi/L	P	supernatant-1' FROM BOTTOM	RAW	Cs137	2.96E+09	2.36E+09	
AZ102	Cs137	2/4/85	R-3699	1.11	8.00E+04	uCi/L	L	Supernate	Braun	Cs137	2.96E+09	2.36E+09	
AZ102	Cs137	2/4/85	R-3700	1.11	7.89E+04	uCi/L	P	supernatant-18' FROM BOTTO	RAW	Cs137	2.92E+09	2.32E+09	
AZ102	Cs137	2/4/85	R-3700	1.11	7.89E+04	uCi/L	L	Supernate	Braun	Cs137	2.92E+09	2.32E+09	
AZ102	Cs137	10/30/90	R-060386		4.87E+04	uCi/L	P	supernate	RAW	Cs137	1.80E+09	1.64E+09	
AZ102	Cs137	5/6/86		1.09	4.87E+04	uCi/L	P	supernate	RAW	Cs137	1.80E+09	1.48E+09	
AZ102	Cs137	5/6/86			4.87E+04	uCi/L	P	supernate	RAW	Cs137	1.80E+09	1.48E+09	
AZ102	Cs137	11/5/85	RAT-AZ102-2A	1.09	4.87E+04	uCi/L	L	Supernate	Braun	Cs137	1.80E+09	1.46E+09	
AZ101	Cs137	1/10/86			4.10E+04	uCi/L	L	water soluble	RAW	Cs137	1.52E+09	1.23E+09	
AZ101	Cs137	9/10/84	1st aliquot		3.60E+04	uCi/L	P	supernatant	RAW	Cs137	1.33E+09	1.05E+09	
AZ102	Cs137	4/26/78		1.299	1.97E+04	uCi/L	L		RAW	Cs137	7.29E+08	4.97E+08	
AZ101	Cs137	1/10/86			1.48E+04	uCi/L	L	acid soluble	RAW	Cs137	5.48E+08	4.45E+08	
AY102	Cs137	6/25/74	T-5314		7.27E+04	uCi/gal	L	NO SOLIDS	RAW	Cs137	7.11E+08	4.43E+08	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Aging Waste Tank Liquids [Sketch ES-VAL-CR51]
 ASA Value: 9.2E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information				
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AZ102	Cs137	12/2/85	T-3251	1.03	1.46E+04	uCi/L		L		RAW	Cs137	5.40E+08	4.38E+08	
AY101	Cs137							L		TRAC	Cs137		4.21E+08	
AY101	Cs137	9/5/75	T-7755		6.46E+04	uCi/gal		L	NO SOLIDS	RAW	Cs137	6.31E+08	4.05E+08	
AY102	Cs137	2/12/90			1.09E+01	uCi/ml		P	SUPERNATANT	RAW	Cs137	4.03E+08	3.60E+08	
AZ101	Cs137							L		TRAC	Cs137		2.20E+08	
AY102	Cs137	2/12/90			4.32E+00	uCi/ml		P	SUPERNATANT	RAW	Cs137	1.60E+08	1.43E+08	
AY102	Cs137	2/1/90	RAT-AY102-1A	1	4.32E+03	uCi/l		L	Supernate	Braun	Cs137	1.60E+08	1.43E+08	
AY102	Cs137	1/19/89			4.32E+00	uCi/mL		P	SUPERNATANT	RAW	Cs137	1.60E+08	1.39E+08	
AY102	Cs137	9/30/88			9.60E+06	dpm/ml		P	SUPERNATANT	RAW	Cs137	1.60E+08	1.39E+08	
AY102	Cs137	6/3/88						P	Supernatant	Wastren	Cs137	1.60E+08	1.38E+08	
AY102	Cs137							L		TRAC	Cs137		8.14E+07	
AZ102	Cs137							L		TRAC	Cs137		3.15E+07	
AZ102	Cs137	2/19/86	T-5387	1.008	9.59E+02	uCi/L		L		RAW	Cs137	3.55E+07	2.89E+07	
AZ102	Cs137	1/30/86	T-5387	1.008	9.59E+02	uCi/l		L	Supernate	Braun	Cs137	3.55E+07	2.89E+07	
AZ101	Cs137	4/26/78			1.19E+02	uCi/L		L		RAW	Cs137	4.40E+06	3.00E+06	
AZ102	Cs137	8/27/81		1.391	3.75E+00	uCi/L		L		RAW	Cs137	1.39E+05	1.02E+05	
AY102	Cs137	11/9/84	R-3215	1.04	7.53E-01	uCi/L		U	Unknown	RAW	Cs137	2.78E+04	2.20E+04	
AY102	Cs137	11/9/84	R-3215	1.04	7.53E-01	uCi/l		L	Supernate	Braun	Cs137	2.78E+04	2.20E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Aging Waste Tank Solids [Sketch ES-VAL-CR52]
 ASA Value: 1.02E+11 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AZ101	Cs137	1/10/86			2.18E+06	Ci/L	R	slurry	RAW	Cs137	8.07E+16	6.56E+16	13
ASA Value: 1.02E+11 Bq/L													
AZ101	Cs137	2/28/90	L1		1.93E+03	uCi/g	S	core sample	RAW	Cs137	1.14E+11	1.02E+11	*
AZ101	Cs137	2/28/90	L2		1.93E+03	uCi/g	S	core sample	RAW	Cs137	1.14E+11	1.02E+11	*
AZ101	Cs137	7/30/92			2.89E+06	uCi/L	S	solids	RAW	Cs137	1.07E+11	1.01E+11	
AZ101	Cs137	9/1/89	RAT-AZ101-4B	1.7	1.70E+03	uCi/gm	S	Supernate/Solids	Braun	Cs137	1.07E+11	9.46E+10	
Preliminary ASA Value: 9.3E+10 Bq/L													
AZ101	Cs137	4/8/86		1.17	2.20E+06	uCi/L	R	slurry	RAW	Cs137	8.14E+10	6.66E+10	
AZ101	Cs137	4/8/86		1.17	2.20E+06	uCi/L	S	centrifuged solids	RAW	Cs137	8.14E+10	6.66E+10	
AZ101	Cs137	4/1/89					S	Solids/Sludge	Wastren	Cs137	7.55E+10	6.61E+10	
AZ101	Cs137	2/28/90	L4		9.96E+02	uCi/g	S	core sample	RAW	Cs137	5.90E+10	5.28E+10	
AZ102	Cs137	5/3/90	L1		9.50E+02	uCi/g	I	Composite	RAW	Cs137	5.62E+10	5.05E+10	
AZ102	Cs137	5/3/90	L4		9.26E+02	uCi/g	I	Composite	RAW	Cs137	5.48E+10	4.92E+10	
AZ101	Cs137	2/28/90	L3		8.99E+02	uCi/g	S	core sample	RAW	Cs137	5.32E+10	4.76E+10	
AZ102	Cs137	9/1/93		1.49	8.80E+02	uCi/g	S	solids	RAW	Cs137	4.85E+10	4.71E+10	
AZ102	Cs137	8/1/89					S	Solids/Sludge	Wastren	Cs137	4.85E+10	4.28E+10	
AZ102	Cs137	5/3/90	L3		7.49E+02	uCi/g	I	Composite	RAW	Cs137	4.43E+10	3.98E+10	
AZ101	Cs137	9/10/84			1.22E+00	Ci/L	I	composite	RAW	Cs137	4.51E+10	3.56E+10	
AZ101	Cs137	9/13/85	A		1.10E+06	uCi/L	R	slurry	RAW	Cs137	4.07E+10	3.29E+10	
AZ101	Cs137	9/13/85	B		1.08E+06	uCi/L	R	slurry	RAW	Cs137	4.00E+10	3.23E+10	
AY102	Cs137	2/12/90			2.65E+02	uCi/g	S	SOLIDS	RAW	Cs137	1.57E+10	1.40E+10	
AY102	Cs137	1/19/89			2.65E+02	uCi/g	I	composite	RAW	Cs137	1.57E+10	1.37E+10	
AY102	Cs137	9/30/88			9.21E+08	dpm/ml	I	Composite	RAW	Cs137	1.54E+10	1.33E+10	
AY102	Cs137	2/12/90	RAT-AY102-1B	1.4	2.65E+02	uCi/gm	S	Composite	Braun	Cs137	1.37E+10	1.23E+10	
AY102	Cs137	6/12/88					S	Comp Solids/Sldg	Wastren	Cs137	1.37E+10	1.18E+10	
AY101	Cs137	4/15/81		1.261	3.86E+05	uCi/L	R	slurry	RAW	Cs137	1.43E+10	1.04E+10	
AY101	Cs137	9/20/82		1.241	3.73E+05	uCi/L	I	composite	RAW	Cs137	1.38E+10	1.04E+10	
AZ101	Cs137	9/13/85	RAT-AZ101-3B		3.48E+05	uCi/l	S	Supernate/Solids	Braun	Cs137	1.29E+10	1.04E+10	
AZ101	Cs137	12/3/79	1463	1.384	3.97E+05	uCi/L	S	24-E top	RAW	Cs137	1.47E+10	1.04E+10	
AZ101	Cs137	12/3/79	1464	1.409	3.86E+05	uCi/L	S	24-E bottom	RAW	Cs137	1.43E+10	1.01E+10	
AY102	Cs137	4/15/81		1.385	3.74E+05	uCi/L	R	SLURRY	RAW	Cs137	1.38E+10	1.01E+10	
AZ101	Cs137	12/3/79	1466	1.414	3.83E+05	uCi/L	S	24-G bottom	RAW	Cs137	1.42E+10	1.00E+10	
AZ101	Cs137	12/3/79	1465	1.411	3.75E+05	uCi/L	S	24-G top	RAW	Cs137	1.39E+10	9.81E+09	
AZ102	Cs137	7/28/83	RAT-AZ102-6	1.41	3.14E+05	uCi/l	S	Slurry	Braun	Cs137	1.16E+10	8.93E+09	
AZ102	Cs137	6/26/79		1.392	3.31E-01	Ci/L	S	sludge	RAW	Cs137	1.22E+10	8.57E+09	
AZ102	Cs137	12/3/79	1458	1.391	3.07E+05	uCi/L	S	24-e top	RAW	Cs137	1.14E+10	8.03E+09	
AZ101	Cs137	3/11/88	T-3494		2.50E+05	uCi/L	S	centrifuged solids	RAW	Cs137	9.25E+09	7.91E+09	
AZ102	Cs137	12/3/79	1457	1.398	3.01E+05	uCi/L	S	24-g bottom	RAW	Cs137	1.11E+10	7.87E+09	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Cesium 137 Aging Waste Tank Solids [Sketch ES-VAL-CR52]
 ASA Value: 1.02E+11 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AZ101	Cs137	10/1/87	RAT-AZ101-6B		2.50E+05	uCi/l	S	Sludge/Composite	Braun	Cs137	9.25E+09	7.83E+09	
AZ102	Cs137	12/3/79	1456	1.393	2.96E+05	uCi/L	S	24-g top	RAW	Cs137	1.10E+10	7.74E+09	
AZ102	Cs137	9/1/83			2.54E+05	uCi/L	G	sludge	RAW	Cs137	9.40E+09	7.24E+09	
AZ101	Cs137	12/28/83			2.34E+05	uCi/L	G	sludge	RAW	Cs137	8.66E+09	6.72E+09	
AZ102	Cs137	9/20/82		1.39	2.20E-01	Ci/L	S	sludge	RAW	Cs137	8.14E+09	6.14E+09	
AY101	Cs137	8/30/78	1353	1.4	1.46E+02	uCi/g	S	water soluble	RAW	Cs137	7.56E+09	5.19E+09	
AY101	Cs137	2/28/85	R-3642	1.12	1.33E+05	uCi/l	S	Supernate/Solids	Braun	Cs137	4.92E+09	3.92E+09	
AZ102	Cs137	7/6/88	T-3496A		7.54E+04	uCi/L	S	water wash	RAW	Cs137	2.79E+09	2.40E+09	
AZ102	Cs137	3/11/88	A	11.9	7.54E+04	uCi/L	I	composite	RAW	Cs137	2.79E+09	2.39E+09	
AZ102	Cs137	7/6/88	T-3496B		6.95E+04	uCi/L	S	water wash	RAW	Cs137	2.57E+09	2.21E+09	
AZ102	Cs137	3/11/88	B	12	6.95E+04	uCi/L	I	composite	RAW	Cs137	2.57E+09	2.20E+09	
AZ102	Cs137	5/6/86			5.79E+04	uCi/L	S	centrifuged	RAW	Cs137	2.14E+09	1.76E+09	
AZ102	Cs137	11/5/85	RAT-AZ102-2B	1.4	5.79E+04	uCi/l	S	Solids	Braun	Cs137	2.14E+09	1.74E+09	
AZ102	Cs137	7/6/88	T-3496B		2.12E+04	uCi/L	S	acid wash	RAW	Cs137	7.84E+08	6.76E+08	
AZ102	Cs137	3/11/88	B		2.12E+04	uCi/L	S	acid-dissolved solids	RAW	Cs137	7.84E+08	6.71E+08	
AZ102	Cs137	7/6/88	T-3496A		1.76E+04	uCi/L	S	acid wash	RAW	Cs137	6.51E+08	5.61E+08	
AZ102	Cs137	3/11/88	A		1.76E+04	uCi/L	S	acid-dissolved solids	RAW	Cs137	6.51E+08	5.57E+08	
AY101	Cs137	7/1/88					Y	Slurry/Sludge	Wastren	Cs137	5.70E+08	4.91E+08	
AY101	Cs137	6/5/78	7955		1.31E+04	uCi/L	S	SOLID	RAW	Cs137	4.85E+08	3.31E+08	
AY101	Cs137	8/30/78	1353	1.4	8.34E+00	uCi/g	S	acid fusion	RAW	Cs137	4.32E+08	2.97E+08	
AZ102	Cs137	5/6/86		1.26	4.59E+03	uCi/L	G	sludge	RAW	Cs137	1.70E+08	1.39E+08	
AZ102	Cs137	11/5/85	RAT-AZ102-2C	1.26	4.59E+03	uCi/l	S	Slurry	Braun	Cs137	1.70E+08	1.38E+08	
AZ101	Cs137	9/13/85		1.17	3.48E+03	uCi/L	I	composite	RAW	Cs137	1.29E+08	1.04E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													
AZ101	Cs137	3/11/88	T-3494		1.47E+03	uCi/L	S	acid wash	RAW	Cs137	5.44E+07	4.65E+07	
AZ102	Cs137	12/3/79	1459	1.386	2.93E+00	uCi/L	S	24-e bottom	RAW	Cs137	1.08E+05	7.66E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Aging Waste Tank Liquids [Sketch ES-VAL-CR53]
 ASA Value: N/A

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Eu154	11/13/75	T-9566		4.49E+05	uCi/gal	L	NO SOLIDS	RAW	Eu154	4.39E+09	9.67E+08	11
AZ101	Eu154	7/30/92			6.60E+03	uCi/L	P	supernate	RAW	Eu154	2.44E+08	2.02E+08	20
Preliminary ASA Value: 1.60E+08 Bq/L													20
AZ102	Eu154	8/27/81		1.391	5.85E+03	uCi/L	L		RAW	Eu154	2.16E+08	7.54E+07	11
AZ102	Eu154	4/26/78		1.299	6.65E+02	uCi/L	L		RAW	Eu154	2.46E+07	6.58E+06	11
AY101	Eu154	10/2/75	T-8529		1.99E+03	uCi/gal	L	NO SOLIDS	RAW	Eu154	1.95E+07	4.25E+06	11
Minimum Plot Limit: 1.00E+06 Bq/L													
AZ101	Eu154	4/26/78			3.50E+00	uCi/L	L		RAW	Eu154	1.30E+05	3.46E+04	11

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Europium 154 Aging Waste Tank Solids [Sketch ES-VAL-CR54]
 ASA Value: 1.27E+10 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
Preliminary ASA Value: 1.50E+10 Bq/L													20
ASA Value: 1.27E+10 Bq/L													
AZ101	Eu154	2/28/90	L2		3.14E+02	uCi/g	S	core sample	RAW	Eu154	1.86E+10	1.27E+10	*
AZ101	Eu154	2/28/90	L4		2.13E+02	uCi/g	S	core sample	RAW	Eu154	1.26E+10	8.60E+09	
AZ101	Eu154	2/28/90	L3		2.11E+02	uCi/g	S	core sample	RAW	Eu154	1.25E+10	8.52E+09	
AZ101	Eu154	7/30/92			1.39E+05	uCi/L	S	solids	RAW	Eu154	5.14E+09	4.25E+09	
AZ102	Eu154	5/3/90	L1		9.75E+01	uCi/g	I	Composite	RAW	Eu154	5.77E+09	3.99E+09	
AZ101	Eu154	9/1/89	RAT-AZ101-4B	1.7	8.20E+01	uCi/gm	S	Supernate/Solids	Braun	Eu154	5.16E+09	3.38E+09	
AZ102	Eu154	5/3/90	L4		6.54E+01	uCi/g	I	Composite	RAW	Eu154	3.87E+09	2.68E+09	
AZ101	Eu154	4/1/89					S	Solids/Sludge	Wastren	Eu154	3.64E+09	2.31E+09	
AY102	Eu154	2/12/90			5.14E+01	uCi/g	S	SOLIDS	RAW	Eu154	3.04E+09	2.07E+09	
AY102	Eu154	1/19/89			5.14E+01	uCi/g	I	composite	RAW	Eu154	3.04E+09	1.90E+09	
AY102	Eu154	2/12/90	RAT-AY102-1B	1.4	5.14E+01	uCi/gm	S	Composite	Braun	Eu154	2.66E+09	1.81E+09	
AY102	Eu154	6/13/88					S	Comp Solids/Slidg	Wastren	Eu154	2.66E+09	1.59E+09	
AY102	Eu154	9/30/88			1.14E+08	dpm/ml	I	Composite	RAW	Eu154	1.90E+09	1.16E+09	
AZ102	Eu154	5/3/90	L3		1.85E+01	uCi/g	I	Composite	RAW	Eu154	1.10E+09	7.58E+08	
AZ101	Eu154	2/28/90	L1		1.27E+01	uCi/g	S	core sample	RAW	Eu154	7.52E+08	5.13E+08	
Minimum Plot Limit: 1.00E+08 Bq/L													

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Aging Waste Tank Liquids [Sketch ES-VAL-CR55]
 ASA Value: 9.21E+04 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 9.21E+04 Bq/L													
AZ102	Np-237	9/1/93		1.49	1.67E-03	uCi/g	P	supernatant	RAW	Np237	9.21E+04		*
Preliminary ASA Value: 7.30E+04 Bq/L													
AZ-102	Np237	8/1/89					P	Supernatant	Wastren	Np237	7.29E+04		
AZ101	Np-237	7/30/92			7.08E-02	uCi/L	P	supernate	RAW	Np237	2.62E+03		
AY-101	Np237						L		TRAC	Np237	3.99E+02		
AZ-101	Np237						L		TRAC	Np237	2.55E+02		
Minimum Plot Limit: 1.00E+02 Bq/L													
AY-102	Np237						L		TRAC	Np237	3.78E+01		
AZ-102	Np237						L		TRAC	Np237	3.60E+01		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Neptunium 237 Aging Waste Tank Solids [Sketch ES-VAL-CR56]
 ASA Value: 9.92E+08 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
ASA Value: 9.92E+08 Bq/L													
AZ101	Np-237	1/10/86			2.68E+04	uCi/L	L	acid soluble	RAW	Np237	9.92E+08		*
AZ102	Np-237	9/1/93		1.49	1.37E-01	uCi/g	S	solids	RAW	Np237	7.55E+06		
AZ-102	Np237	8/1/89					S	Solids/Sludge	Wastren	Np237	7.55E+06		
Preliminary ASA Value: 7.50E+06 Bq/L													
AZ101	Np-237	9/1/89	RAT-AZ101-4B	1.7	0.023	uCi/gm	S	Supernate/Solids	Braun	Np237	1.45E+06		
AZ101	Np-237	7/30/92			3.91E+01	uCi/L	S	solids	RAW	Np237	1.45E+06		
AZ-101	Np237	4/1/89					S	Solids/Sludge	Wastren	Np237	1.02E+06		
AY102	Np-237	1/29/88	1NL12988	1.3	0.005	uCi/gm	S	Solids	Braun	Np237	2.41E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Aging Waste Tank Liquids [Sketch ES-VAL-CR57]
 ASA Value: 2.79E+03 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AZ101	Pu238	7/30/92			7.92E-02	uCi/L	P	supernate	RAW	Pu238	2.93E+03	2.87E+03	8
AZ101	Pu238	9/1/89	RAT-AZ101-4	1.2	6.60E-05	uCi/gm	L	Supernate	Braun	Pu238	2.93E+03	2.81E+03	8
ASA Value: 2.79E+03 Bq/L													
AZ101	Pu238	4/1/89					P	Supernatant	Wastren	Pu238	2.93E+03	2.80E+03	*
Minimum Plot Limit: 1.00E+03 Bq/L													
AY101	Pu238						L		TRAC	Pu238		2.97E+01	
AZ101	Pu238						L		TRAC	Pu238		2.32E+01	
AY102	Pu238						L		TRAC	Pu238		3.48E+00	
AZ102	Pu238						L		TRAC	Pu238		3.46E+00	

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Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 238 Aging Waste Tank Solids [Sketch ESK-VAL-CR58]
 ASA Value: 6.83E+07 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY-101	Pu238				0.003	g-moles	S		TRAC	Pu238	1.23E+08	1.11E+08	4
ASA Value: 6.83E+07 Bq/L													
AY102	Pu-238	1/29/88	1NL12988	1.3	1.5	uCi/gm	S	Solids	Braun	Pu238	7.22E+07	6.83E+07	*
AY102	Pu-238	2/12/90			1.14	uCi/g	S	SOLIDS	RAW	Pu238	6.75E+07	6.49E+07	
AY102	Pu-238	2/12/90	RAT-AY102-1B	1.4	1.14	uCi/gm	S	Composite	Braun	Pu238	5.91E+07	5.68E+07	
AY102	Pu238	6/15/88					S	Comp Solids/Sldg	Wastren	Pu238	5.92E+07	5.62E+07	
Preliminary ASA Value: 4.33E+07 Bq/L													
AZ101	Pu-238	7/30/92			1170	uCi/L	S	solids	RAW	Pu238	4.33E+07	4.25E+07	
AZ101	Pu-238	9/1/89	RAT-AZ101-4B	1.7	0.69	uCi/gm	S	Supernate/Solids	Braun	Pu238	4.34E+07	4.16E+07	
AY102	Pu-238	9/30/88			3E+06	dpm/ml	I	Composite	RAW	Pu238	4.20E+07	4.00E+07	
AZ101	Pu238	4/1/89					S	Solids/Sludge	Wastren	Pu238	3.06E+07	2.92E+07	
Minimum Plot Limit: 1.00E+05 Bq/L													
AZ101	Pu-238	12/4/86	S3		1.354	uCi/L	R	slurry	RAW	Pu238	5.01E+04	4.70E+04	
AZ101	Pu238	9/1/89	RAT-AZ101-4A	1.2	7E-05	uCi/gm	P	Supernate	Braun	Pu238	2.93E+03	2.81E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Aging Waste Tank Liquids [Sketch ES-VAL-CR59]
 ASA Value: 1.2E+06 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AZ102	Pu-239/240	9/20/82	RAT-AZ102-4C	1.39	0.0036	gm/l	L	Supernate	Braun	Pu239/240	9.50E+06		11
AZ102	Pu-239/240	6/26/79	RAT-AZ102-4a	1.39	0.0024	gm/l	L	Supernate	Braun	Pu239/240	6.33E+06		11
AY101	Pu	10/3/79	1810		2	ppm	L	Supernate	Braun	Pu239/240	5.80E+06		14
AY101	Pu	10/3/79	1811		2	ppm	L	Supernate	Braun	Pu239/240	5.80E+06		14
AZ102	Pu-239/240	8/27/81	RAT-AZ102-4B	1.39	0.00106	gm/l	L	Supernate	Braun	Pu239/240	2.80E+06		11
ASA Value: 1.2E+06 Bq/L													
AZ-102	Pu239/240	8/1/89					P	Supernatant	Wastren	Pu239/240	1.21E+06		*
AY101	Pu-239/240	2/28/85	R-3641	1.11	12.1	uCi/l	L	Supernate	Braun	Pu239/240	4.48E+05		
AZ101	Pu	6/1/84	RAT-AZ101-2A		9.44	uCi/l	L	Supernate	Braun	Pu239/240	3.49E+05		
AZ101	Pu	6/1/84	RAT-AZ101-2B		8.28	uCi/l	L	Supernate	Braun	Pu239/240	3.06E+05		
AZ102	Pu-239/240	11/5/85	RAT-AZ102-2A	1.09	0.0000722	gm/l	L	Supernate	Braun	Pu239/240	1.90E+05		
AZ102	Pu-239/240	5/6/86		1.09	7.22E-05	g/L	P	supernatant	RAW	Pu239/240	1.90E+05		
AY101	Pu-239/240	2/28/85	R-3641	1.11	4.20E+00	uCi/L	P	supernatant	RAW	Pu239/240	1.55E+05		
AY101	Pu-239/240	2/28/85	R-3642	1.12	2.70E+00	uCi/L	P	supernatant	RAW	Pu239/240	9.99E+04		
AZ102	Pu	2/4/85	R-3699	1.11	2.11	uCi/l	L	Supernate	Braun	Pu239/240	7.81E+04		
AZ102	Pu	2/4/85	R-3700	1.11	1.3	uCi/l	L	Supernate	Braun	Pu239/240	4.81E+04		
AZ-101	Pu239/240	4/1/89					P	Supernatant	Wastren	Pu239/240	1.91E+04		
AZ101	Pu-239/240	9/1/89	RAT-AZ101-4A	1.2	0.00043	uCi/gm	L	Supernate	Braun	Pu239/240	1.91E+04		
AZ101	Pu-239	9/1/89	RAT-AZ101-4A	1.2	0.00034	uCi/gm	L	Supernate	Braun	Pu239/240	1.51E+04		
AZ101	Pu-239/240	7/30/92			4.08E-01	uCi/L	P	supernate	RAW	Pu239/240	1.51E+04		
Minimum Plot Limit: 1.00E+04 Bq/L													
AY-102	Pu239/240	2nd Qtr-88					P	Supernatant	Wastren	Pu239/240	8.66E+03		
AY102	Pu-239/240	2/1/90	RAT-AY102-1A	1	0.234	uCi/l	L	Supernate	Braun	Pu239/240	8.66E+03		
AY102	Pu-239/240	1/19/89			2.34E-04	uCi/mL	P	SUPERNATANT	RAW	Pu239/240	8.66E+03		
AY102	Pu-239/240	2/12/90			2.34E-04	uCi/ml	P	SUPERNATANT	RAW	Pu239/240	8.66E+03		
AZ101	Pu-239/240	7/30/92			1.13E-01	uCi/L	P	supernate	RAW	Pu239/240	4.18E+03		
AZ102	Pu	1/30/86	T-5387	1.008	3.58E-07	gm/l	L	Supernate	Braun	Pu239/240	9.44E+02		
AY102	Pu-239/240	2/12/90			1.21E-05	uCi/ml	P	SUPERNATANT	RAW	Pu239/240	4.48E+02		
AY101	Pu	3/1/87	RAT-AY101-1	1.09	0.004	uCi/l	L	Supernate	Braun	Pu239/240	1.48E+02		
AZ-101	Pu239						L		TRAC	Pu239/240	1.86E-01		
AY-101	Pu239						L		TRAC	Pu239/240	1.24E-01		
AZ-102	Pu239						L		TRAC	Pu239/240	4.05E-02		
AY-102	Pu239						L		TRAC	Pu239/240	1.04E-02		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 239/240 Aging Waste Tank Solids [Sketch ES-VAL-CR60]
 ASA Value: 4.4E+08 Bq/L

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TankWasteCharacterizationSampleInformation										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
ASA Value: 4.4E+08 Bq/L													
AZ101	Pu	5/1/89		1.62	101	ug/g	S	Solids	RAW	Pu239/240	4.42E+08		*
AZ101	Pu-239/240	9/1/89	RAT-AZ101-4B	1.7	4.4	uCi/gm	S	Supernate/Solids	Braun	Pu239/240	2.77E+08		
AZ101	Pu-239	9/1/89	RAT-AZ101-4B	1.7	3.4	uCi/gm	S	Supernate/Solids	Braun	Pu239/240	2.14E+08		
AZ101	Pu-239/240	7/30/92			5.78E+03	uCi/L	S	solids	RAW	Pu239/240	2.14E+08		
AY102	Pu-239/240	1/19/89			3.61E+00	uCi/g	I	composite	RAW	Pu239/240	2.14E+08		
AY102	Pu-239/240	2/12/90			3.61E+00	uCi/g	S	SOLIDS	RAW	Pu239/240	2.14E+08		
AZ-102	Pu239/240	8/1/89					S	Solids/Sludge	Wastren	Pu239/240	2.02E+08		
AZ-101	Pu239/240	4/1/89					S	Solids/Sludge	Wastren	Pu239/240	1.95E+08		
AY-102	Pu239/240	2nd Qtr-88					S	Comp Solids/Slidg	Wastren	Pu239/240	1.87E+08		
AY102	Pu-239/240	2/12/90	RAT-AY102-1B	1.4	3.61	uCi/gm	S	Composite	Braun	Pu239/240	1.87E+08		
AY102	Pu-239/240	1/29/88	1NL12988	1.3	3	uCi/gm	S	Solids	Braun	Pu239/240	1.44E+08		
AY102	Pu-239	1/29/88	1NL12988	1.3	2.4	uCi/gm	S	Solids	Braun	Pu239/240	1.15E+08		
AY-101	Pu239				5.6099993	g-moles	S		TRAC	Pu239/240	8.04E+07		
AZ102	Pu-239/240	11/5/85	RAT-AZ102-2B	1.4	0.0241	gm/l	S	Solids	Braun	Pu239/240	6.36E+07		
AZ102	Pu-239/240	5/6/86			2.41E-02	g/L	S	centrifuged	RAW	Pu239/240	6.36E+07		
AZ101	Pu-239/240	7/30/92			1.65E+03	uCi/L	S	solids	RAW	Pu239/240	6.11E+07		
AZ102	Pu-239/240	7/13/88	T-1521B		9.30E+02	uCi/L	S	dark brown solids	RAW	Pu239/240	3.44E+07		
AZ102	Pu-239/240	7/13/88	T-1521A		7.90E+02	uCi/L	S	dark brown solids	RAW	Pu239/240	2.92E+07		
AZ102	Pu-239/240	9/20/82		1.39	3.60E-03	g/L	S	sludge	RAW	Pu239/240	9.50E+06		
AZ102	Pu-239/240	6/26/79		1.392	2.40E-03	g/L	S	sludge	RAW	Pu239/240	6.33E+06		
Minimum Plot Limit: 1.00E+06 Bq/L													
AZ101	Pu-239/240	12/4/86	S1		1.09E+01	uCi/L	R	slurry	RAW	Pu239/240	4.03E+05		
AZ101	Pu-239/240	12/4/86	S2		1.05E+01	uCi/L	R	slurry	RAW	Pu239/240	3.89E+05		
AY101	Pu-239/240	2/28/85	R-3642	1.12	6.91	uCi/l	S	Supernate/Solids	Braun	Pu239/240	2.56E+05		
AZ102	Pu-239/240	11/5/85	RAT-AZ102-2C	1.26	0.0000969	gm/l	S	Slurry	Braun	Pu239/240	2.56E+05		
AZ102	Pu-239/240	5/6/86		1.26	9.69E-05	uCi/L	G	sludge	RAW	Pu239/240	3.59E+00		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Aging Waste Tank Liquids [Sketch ESK-VAL-CR61]
 ASA Value: 3.69E+05 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AZ101	Pu241	7/30/92			38.4	uCi/L	P	supernate	RAW	Pu241	1.42E+06	1.26E+06	6
ASA Value: 3.69E+05 Bq/L													
AY101	Pu241	2/28/85	R-3641	1.11	16	uCi/L	P	supernatant	RAW	Pu241	5.92E+05	3.69E+05	*
AY101	Pu241	2/28/85	R-3642	1.12	11.2	uCi/L	P	supernatant	RAW	Pu241	4.14E+05	2.58E+05	
Preliminary ASA Value: 1.26E+05 Bq/L													
AZ101	Pu241	9/1/89	RAT-AZ101-4A	1.2	0.004	uCi/gm	L	Supernate	Braun	Pu241	1.60E+05	1.24E+05	
AZ101	Pu241	4/1/89					P	Supernatant	Wastren	Pu241	1.60E+05	1.21E+05	
Minimum Plot Limit: 1.00E+04 Bq/L													
AZ101	Pu241						L		TRAC	Pu241		4.46E-01	
AZ102	Pu241						L		TRAC	Pu241		1.34E-01	
AY101	Pu241						L		TRAC	Pu241		1.33E-01	
AY102	Pu241						L		TRAC	Pu241		5.65E-03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Plutonium 241 Aging Waste Tank Solids [Sketch ES-VAL-CR62]
 ASA Value: 1.8E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Pu241				3.19E-02	g-moles	S		TRAC	Pu241	8.41E+09	4.33E+09	4
AZ101	Pu241	7/30/92			6.29E+04	uCi/L	S	solids	RAW	Pu241	2.33E+09	2.07E+09	21
ASA Value: 1.8E+09 Bq/L													
AZ101	Pu241	9/1/89	RAT-AZ101-4	1.7	3.70E+01	uCi/gm	S	Supernate/Solids	Braun	Pu241	2.33E+09	1.80E+09	*
Preliminary ASA Value: 1.24E+09 Bq/L													
AZ101	Pu241	4/1/89					S	Solids/Sludge	Wastren	Pu241	1.64E+09	1.24E+09	
AY102	Pu241	1/29/88	1NL12988	1.3	1.30E+01	uCi/gm	S	Solids	Braun	Pu241	6.25E+08	4.48E+08	
Minimum Plot Limit: 1.00E+07 Bq/L													
AY101	Pu241	2/28/85	R-3642	1.12	1.05E+01	uCi/l	S	Supernate/Solids	Braun	Pu241	3.89E+05	2.42E+05	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Aging Waste Tank Liquids [Sketch ES-VAL-CR63]
 ASA Value: 5.84E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Sr90						L		TRAC	Sr89/90		1.40E+10	4
AZ102	Sr90	10/30/90	R-280783		2.65E+05	uCi/L	P	supernate	RAW	Sr89/90	9.81E+09	8.87E+09	11
AZ102	Sr90	8/27/81		1.391	2.92E+05	uCi/L	L		RAW	Sr89/90	1.08E+10	7.84E+09	11
AZ102	Sr90	8/27/81	RAT-AZ102-4B	1.39	2.92E-01	Ci/l	L	Supernate	Braun	Sr89/90	1.08E+10	7.84E+09	11
AZ102	Sr90	7/28/83			2.65E+05	uCi/L	P	supernate	RAW	Sr89/90	9.81E+09	7.45E+09	11
AZ102	Sr90	7/28/83	RAT-AZ102-4D	1.41	2.65E-01	Ci/l	L	Supernate	Braun	Sr89/90	9.81E+09	7.45E+09	11
AZ102	Sr90	6/26/79	RAT-AZ102-4a	1.39	2.44E-01	Ci/l	L	Supernate	Braun	Sr89/90	9.03E+09	6.22E+09	11
ASA Value: 5.84E+09 Bq/L													
AY101	Sr90	2/28/85	R-3641	1.11	2.00E+05	uCi/L	P	supernatant	RAW	Sr89/90	7.40E+09	5.84E+09	*
AY101	Sr89/90	2/28/85	R-3641	1.11	2.00E+05	uCi/l	L	Supernate	Braun	Sr89/90	7.40E+09	5.84E+09	*
AZ101	Sr90						L		TRAC	Sr89/90		5.23E+09	4
AZ102	Sr90	4/26/78		1.299	1.95E+05	uCi/L	L		RAW	Sr89/90	7.22E+09	4.83E+09	11
AY101	Sr90	2/28/85	R-3642	1.12	1.56E+05	uCi/L	P	supernatant	RAW	Sr89/90	5.77E+09	4.56E+09	
AY101	Sr90	6/23/87		1.09	1.44E+05	uCi/L	P	supernatant	RAW	Sr89/90	5.33E+09	4.45E+09	
Preliminary ASA Value: 4.50E+09 Bq/L													
AY101	Sr89/90	3/1/87	RAT-AY101-1	1.09	1.44E+05	uCi/l	L	Supernate	Braun	Sr89/90	5.33E+09	4.41E+09	
AY101	Sr90	6/5/78	7955	1.39	1.51E+05	uCi/L	L	LIQUID	RAW	Sr89/90	5.59E+09	3.75E+09	
AZ102	Sr90						L		TRAC	Sr89/90		2.94E+09	
AZ102	Sr90	9/20/82	RAT-AZ102-4C	1.39	7.20E-02	Ci/l	L	Supernate	Braun	Sr89/90	2.66E+09	1.98E+09	
AY101	Sr90	2/15/84	R9280	1.085	4.93E+04	uCi/L	L	LIQUID	RAW	Sr89/90	1.82E+09	1.40E+09	
AY101	Sr90	2/15/84	R9281	1.099	4.20E+04	uCi/L	L	LIQUID	RAW	Sr89/90	1.55E+09	1.20E+09	
AY101	Sr89/90	8/30/78	1355	1.39	3.39E+04	uCi/L	P	supernatant	RAW	Sr89/90	1.25E+09	8.47E+08	
AY102	Sr90	11/9/84	R-3214	1.03	2.32E+04	uCi/L	U	Unknown	RAW	Sr89/90	8.58E+08	6.72E+08	
AY102	Sr90	11/9/84	R-3214	1.03	2.32E+04	uCi/l	L	Supernate	Braun	Sr89/90	8.58E+08	6.72E+08	
AZ102	Sr90	9/1/93		1.49	5.96E+00	uCi/g	P	supernatant	RAW	Sr89/90	3.29E+08	3.18E+08	
AZ102	Sr90	10/30/90	R-060386		7.45E+03	uCi/L	P	supernate	RAW	Sr89/90	2.76E+08	2.49E+08	
Preliminary ASA Value: 2.30E+08 Bq/L													
AZ102	Sr89/90	8/1/89					P	Supernatant	Wastren	Sr89/90	2.60E+08	2.28E+08	
AZ102	Sr90	5/6/86		1.09	7.45E+03	uCi/L	P	supernatant	RAW	Sr89/90	2.76E+08	2.24E+08	
AZ102	Sr89/90	11/5/85	RAT-AZ102-2A	1.09	7.45E+03	uCi/l	L	Supernate	Braun	Sr89/90	2.76E+08	2.21E+08	
AY102	Sr90	2/12/90			6.58E+00	uCi/ml	P	SUPERNATANT	RAW	Sr89/90	2.43E+08	2.17E+08	
AY102	Sr90	2/1/90	RAT-AY102-1A	1	6.58E+03	uCi/l	L	Supernate	Braun	Sr89/90	2.43E+08	2.16E+08	
AY102	Sr90	1/19/89			6.58E+00	uCi/mL	P	SUPERNATANT	RAW	Sr89/90	2.43E+08	2.11E+08	
AY102	Sr90	9/30/88			1.46E+07	dpm/ml	P	SUPERNATANT	RAW	Sr89/90	2.43E+08	2.09E+08	
AY102	Sr89/90	6/1/88					P	Supernatant	Wastren	Sr89/90	2.43E+08	2.07E+08	
AZ101	Sr90	7/30/92			5.76E+03	uCi/L	P	supernate	RAW	Sr89/90	2.13E+08	2.01E+08	
AZ101	Sr90	9/1/89	RAT-AZ101-4A	1.2	4.80E+00	uCi/gm	L	Supernate	Braun	Sr89/90	2.13E+08	1.88E+08	
AZ101	Sr89/90	4/1/89					P	Supernatant	Wastren	Sr89/90	2.13E+08	1.86E+08	
AY102	Sr90						L		TRAC	Sr89/90		7.89E+07	
AZ101	Sr90	5/2/90	R-130985		2.11E+03	uCi/L	P	supernate	RAW	Sr89/90	7.81E+07	6.98E+07	
AZ101	Sr90	9/13/85		1.17	2.11E+03	uCi/L	P	supernatant	RAW	Sr89/90	7.81E+07	6.24E+07	
AZ101	Sr90	9/13/85	RAT-AZ101-3A	1.17	2.11E+03	uCi/l	L	Supernate	Braun	Sr89/90	7.81E+07	6.24E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Aging Waste Tank Liquids [Sketch ES-VAL-CR63]
 ASA Value: 5.84E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			ID
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	
AZ102	Sr90	2/4/85	R-3699	1.11	2.14E+03	uCi/L	P	supernatant-1' FROM BOTTOM	RAW	Sr89/90	7.92E+07	6.24E+07	
AZ102	Sr89/90	2/4/85	R-3699	1.11	2.14E+03	uCi/l	L	Supernate	Braun	Sr89/90	7.92E+07	6.24E+07	
AZ101	Sr90	11/18/85	RAT-AZ101-1A		2.00E+03	uCi/l	L	Supernate	Braun	Sr89/90	7.40E+07	5.94E+07	
AZ101	Sr90	5/2/90	R-110388		1.66E+03	uCi/L	P	supernate	RAW	Sr89/90	6.14E+07	5.49E+07	
AZ101	Sr90	3/11/88	T-3493		1.66E+03	uCi/L	P	supernatant	RAW	Sr89/90	6.14E+07	5.22E+07	
AZ101	Sr90	3/11/88	T-3494		1.66E+03	uCi/L	P	supernatant	RAW	Sr89/90	6.14E+07	5.22E+07	
AZ101	Sr89/90	10/1/87	RAT-AZ101-6A		1.66E+03	uCi/l	L	Supernate	Braun	Sr89/90	6.14E+07	5.16E+07	
AZ102	Sr90	10/31/90	R-880311		1.46E+03	uCi/L	P	supernate	RAW	Sr89/90	5.40E+07	4.89E+07	
AZ102	Sr90	7/6/88	T-3495		1.46E+03	uCi/L	P	supernate	RAW	Sr89/90	5.40E+07	4.62E+07	
AZ102	Sr90	3/11/88			1.46E+03	uCi/L	P	supernate	RAW	Sr89/90	5.40E+07	4.59E+07	
AZ102	Sr89/90	10/1/87	RAT-AZ102-3		1.46E+03	uCi/l	L	Supernate	Braun	Sr89/90	5.40E+07	4.54E+07	
AY102	Sr90	2/12/90			1.26E+00	uCi/ml	P	SUPERNATANT	RAW	Sr89/90	4.66E+07	4.15E+07	
AZ101	Sr90	1/10/86			1.16E+03	uCi/L	L	water soluble	RAW	Sr89/90	4.29E+07	3.46E+07	
AZ102	Sr90	2/4/85	R-3700	1.11	1.06E+03	uCi/L	P	supernatant-18' FROM BOTTO	RAW	Sr89/90	3.92E+07	3.09E+07	
AZ102	Sr89/90	2/4/85	R-3700	1.11	1.06E+03	uCi/l	L	Supernate	Braun	Sr89/90	3.92E+07	3.09E+07	
AY101	Sr89/90	7/5/78	295		9.72E-04	Ci/L	L	liquid	RAW	Sr89/90	3.60E+07	2.42E+07	
AZ101	Sr90	5/2/90	R-101283		2.06E+02	uCi/L	P	supernate	RAW	Sr89/90	7.62E+06	6.81E+06	
AZ101	Sr90	12/10/86			2.03E+02	uCi/L	L		RAW	Sr89/90	7.51E+06	6.19E+06	
AZ101	Sr90	1/10/86			2.03E+02	uCi/L	P	supernatant	RAW	Sr89/90	7.51E+06	6.06E+06	
AZ101	Sr90	4/8/86		1.17	2.00E+02	uCi/L	L	supernate	RAW	Sr89/90	7.40E+06	6.00E+06	
AZ101	Sr90	5/2/90	R-100984		1.78E+02	uCi/L	P	supernate	RAW	Sr89/90	6.59E+06	5.89E+06	
AZ101	Sr90	9/10/84	1st aliquot		1.78E+02	uCi/L	P	supernatant	RAW	Sr89/90	6.59E+06	5.15E+06	
AZ101	Sr90	6/1/84	RAT-AZ101-2A		1.78E+02	uCi/l	L	Supernate	Braun	Sr89/90	6.59E+06	5.11E+06	
AZ101	Sr90	9/10/84	2nd aliquot		1.69E+02	uCi/L	P	supernatant	RAW	Sr89/90	6.25E+06	4.88E+06	
AZ101	Sr90	6/1/84	RAT-AZ101-2B		1.69E+02	uCi/l	L	Supernate	Braun	Sr89/90	6.25E+06	4.85E+06	
Minimum Plot Limit: 1.00E+06 Bq/L													
AZ101	Sr90	8/27/81		1.143	3.57E+00	uCi/L	F	filtrate	RAW	Sr89/90	1.32E+05	9.59E+04	
AZ102	Sr90	10/31/90	R-081287		1.65E+00	uCi/L	P	supernate	RAW	Sr89/90	6.11E+04	5.52E+04	
AZ102	Sr90	7/13/88	T-1520		1.65E+00	uCi/L	P	supernate	RAW	Sr89/90	6.11E+04	5.23E+04	
AZ102	Sr90	12/8/87			1.65E+00	uCi/L	P	supernate	RAW	Sr89/90	6.11E+04	5.15E+04	
AZ101	Sr90	5/2/90	R-281283		1.11E+00	uCi/L	P	supernate	RAW	Sr89/90	4.11E+04	3.67E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Aging Waste Tank Solids (Sketch ES-VAL-CR64)
 ASA Value: 3.00E+12 Bq/L

Tank Waste Characterization Sample Information									
Tank	Radionuclide	Date	Sample #	Density	Value Reported	Unit	Code	Sample State	Source
Radionuclide Information									
ID	Bq/L	Decayed							

ASA Value: 3.00E+12 Bq/L

AZ101	Sr90	5/1/89		1.62	5.72E+04	uCi/g	S	Solid	RAW	Sr89/90	3.43E+12	2.99E+12	*
AY102	Sr90	2/12/90			2.95E+04	uCi/g	S	SOLIDS	RAW	Sr89/90	1.75E+12	1.55E+12	
AZ101	Sr90	9/13/85	RAT-AZ101-3B		4.91E+07	uCi/l	S	Supernate/Solids	Braun	Sr89/90	1.82E+12	1.45E+12	
AZ101	Sr90	2/12/90	RAT-AY102-1	1.4	2.95E+04	uCi/gm	S	Composite	RAW	Sr89/90	1.51E+12	1.42E+12	
AZ101	Sr90	9/1/89	RAT-AZ101-4B	1.7	2.40E+04	uCi/gm	S	Supernate/Solids	Braun	Sr89/90	1.53E+12	1.36E+12	
AY102	Sr89/90	6/9/88					S	Comp Solids/Sldg	Wastren	Sr89/90	1.53E+12	1.31E+12	
AZ102	Sr90	9/1/93		1.49	2.20E+04	uCi/g	S	solids	RAW	Sr89/90	1.21E+12	1.17E+12	
AZ102	Sr89/90	8/1/89					S	Solids/Sludge	Wastren	Sr89/90	1.21E+12	1.06E+12	
AY101	Sr89/90	8/30/78	1353	1.4	2.88E+04	uCi/g	S	acid fusion	RAW	Sr89/90	1.49E+12	1.01E+12	
AY102	Sr90	9/30/88			6.55E+10	dpm/ml	I	Composite	RAW	Sr89/90	1.09E+12	9.39E+11	
AZ101	Sr89/90	4/1/89					S	Solids/Sludge	Wastren	Sr89/90	1.07E+12	9.32E+11	
AZ101	Sr90	3/11/88	T-3494		2.20E+07	uCi/L	S	centrifuged solids	RAW	Sr89/90	8.14E+11	6.91E+11	
AZ101	Sr89/90	10/1/87	RAT-AZ101-6B		2.20E+07	uCi/l	S	Sludge/Composite	Braun	Sr89/90	8.14E+11	6.84E+11	
AZ101	Sr90	9/10/84			1.27E+01	Ci/L	I	composite	RAW	Sr89/90	4.70E+11	3.67E+11	
AZ101	Sr90	9/10/84			1.27E+01	Ci/L	S	Solid	RAW	Sr89/90	4.70E+11	3.67E+11	
AY101	Sr89/90	7/1/88					Y	Slurry/Sludge	Wastren	Sr89/90	3.65E+11	3.12E+11	
AZ101	Sr90	4/8/86		1.17	9.10E+06	uCi/L	S	centrifuged solids	RAW	Sr89/90	3.37E+11	2.73E+11	
AZ102	Sr90	7/13/88	T-1521B		5.40E+06	uCi/L	S	dark brown solids	RAW	Sr89/90	2.00E+11	1.71E+11	
AZ102	Sr90	5/6/86			5.21E+06	uCi/L	S	centrifuged	RAW	Sr89/90	1.93E+11	1.57E+11	
AZ102	Sr89/90	11/5/85	RAT-AZ102-2B	1.4	5.21E+06	uCi/l	S	Solids	Braun	Sr89/90	1.93E+11	1.55E+11	
AZ102	Sr90	7/13/88	T-1521A		4.50E+06	uCi/L	S	dark brown solids	RAW	Sr89/90	1.67E+11	1.43E+11	
AZ101	Sr90	4/8/86		1.17	9.10E+05	uCi/L	R	slurry	RAW	Sr89/90	3.37E+10	2.73E+10	
AZ102	Sr90	7/6/88	T-3496A		6.21E+05	uCi/L	S	acid wash	RAW	Sr89/90	2.30E+10	1.97E+10	
AZ102	Sr90	3/11/88	A		6.21E+05	uCi/L	S	acid-dissolved solids	RAW	Sr89/90	2.30E+10	1.95E+10	
AZ102	Sr90	7/6/88	T-3496B		6.10E+05	uCi/L	S	acid wash	RAW	Sr89/90	2.26E+10	1.93E+10	
AZ102	Sr90	3/11/88	B		6.10E+05	uCi/L	S	acid-dissolved solids	RAW	Sr89/90	2.26E+10	1.92E+10	
AZ101	Sr90	9/13/85		1.17	4.90E+05	uCi/L	I	composite	RAW	Sr89/90	1.81E+10	1.45E+10	
AZ101	Sr90	1/10/86			4.14E+05	uCi/L	R	slurry	RAW	Sr89/90	1.53E+10	1.23E+10	
Minimum Plot Limit: 1.00E+10 Bq/L													
AY101	Sr89/90	8/30/78	1353	1.4	2.69E+02	uCi/g	S	water soluble	RAW	Sr89/90	1.39E+10	9.41E+09	
AZ102	Sr90	7/28/83	RAT-AZ102-6	1.41	2.65E+05	uCi/l	S	Slurry	Braun	Sr89/90	9.81E+09	7.45E+09	
AZ102	Sr90	12/3/79	1457	1.398	2.60E+05	uCi/L	S	24-g bottom	RAW	Sr89/90	9.62E+09	6.70E+09	
AZ102	Sr90	12/3/79	1458	1.391	2.59E+05	uCi/L	S	24-e top	RAW	Sr89/90	9.58E+09	6.67E+09	
AZ102	Sr90	12/3/79	1456	1.393	2.50E+05	uCi/L	S	24-g top	RAW	Sr89/90	9.25E+09	6.44E+09	
AZ102	Sr90	12/3/79	1459	1.386	2.49E+05	uCi/L	S	24-e bottom	RAW	Sr89/90	9.21E+09	6.41E+09	
AZ102	Sr90	6/26/79		1.392	2.44E-01	Ci/L	S	sludge	RAW	Sr89/90	9.03E+09	6.22E+09	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Strontium 89/90 Aging Waste Tank Solids [Sketch ES-VAL-CR64]
 ASA Value: 3.00E+12 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AZ102	Sr90	9/1/83			2.19E+05	uCi/L	G	sludge	RAW	Sr89/90	8.10E+09	6.17E+09	
AY101	Sr89/90	2/28/85	R-3642	1.12	1.56E+05	uCi/l	S	Supernate/Solids	Braun	Sr89/90	5.77E+09	4.56E+09	
AZ101	Sr90	3/11/88	T-3494		1.29E+05	uCi/L	S	acid wash	RAW	Sr89/90	4.77E+09	4.05E+09	
AZ102	Sr90	9/20/82		1.39	7.20E-02	Ci/L	S	sludge	RAW	Sr89/90	2.66E+09	1.98E+09	
AY101	Sr90	9/20/82		1.241	4.80E+04	uCi/L	I	composite	RAW	Sr89/90	1.78E+09	1.32E+09	
AZ102	Sr89/90	5/6/86		1.26	1.29E+04	uCi/L	G	sludge	RAW	Sr89/90	4.77E+08	3.88E+08	
AZ102	Sr89/90	11/5/85	RAT-AZ102-2	1.26	1.29E+04	uCi/l	S	Slurry	Braun	Sr89/90	4.77E+08	3.83E+08	
AY101	Sr90	6/5/78	7955		2.05E+03	uCi/L	S	SOLID	RAW	Sr89/90	7.59E+07	5.09E+07	
AZ101	Sr90	9/13/85		1.17	7.04E+02	uCi/L	I	composite	RAW	Sr89/90	2.60E+07	2.08E+07	
AZ102	Sr90	7/6/88	T-3496B		1.67E+02	uCi/L	S	water wash	RAW	Sr89/90	6.18E+06	5.29E+06	
AZ102	Sr90	3/11/88	B	12	1.67E+02	uCi/L	I	composite	RAW	Sr89/90	6.18E+06	5.25E+06	
AZ101	Sr90	9/10/84			1.18E-04	Ci/L	I	composite	RAW	Sr89/90	4.37E+06	3.41E+06	
AZ102	Sr90	7/6/88	T-3496A		6.20E+01	uCi/L	S	water wash	RAW	Sr89/90	2.29E+06	1.96E+06	
AZ102	Sr90	3/11/88	A	11.9	6.20E+01	uCi/L	I	composite	RAW	Sr89/90	2.29E+06	1.95E+06	
AZ101	Sr90	12/28/83			1.11E+00	uCi/L	G	sludge	RAW	Sr89/90	4.11E+04	3.15E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Radionuclides
 Yttrium 90 - Aging Tank Liquids [Sketch ESK-VAL-CR65]
 ASA Value: 5.84E+09 Bq/L

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Tank Waste Characterization Sample Information										Radionuclide Information			
Tank	Reported Radionuclide	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Radionuclide	Bq/L	Bq/L Decayed	ID
AY101	Y90						L		TRAC	Y90		1.98E+10	4
AZ101	Y90						L		TRAC	Y90		7.40E+09	4
ASA Value: 5.84E+09 Bq/L													22
Preliminary ASA Value: 4.5E+09 Bq/L													
AY102	Y90						L		TRAC	Y90		1.12E+08	4
AZ102	Y90						L		TRAC	Y90		2.90E+07	4
Minimum Plot Limit: 1.00E+06 Bq/L													

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APPENDIX D

Chemical Analyte Tables

SUMMARY/DESCRIPTION OF TABLE FIELDS AND CODES

The sample data tables that follow contain all the information used to make the plots, either radionuclide or chemical analyte as indicated in the title. This information is specifically useful in that it includes, in addition to the information on the plots found in the previous appendices, all the data points that are above or below the plot limits. Information included in the tables is as follows:

Tank Waste Characterization Sample Information

- Tank - the tank the sample was taken from
- Reported Chemical/Radionuclide - the chemical/radionuclide as it was reported
- Date - date sampled (if available), otherwise analyzed date or memo/letter/report date
- Sample # - any sample number available to identify the sample from others
- Density - any bulk density or specific gravity associated with the particular reported chemical or radionuclide
- Reported Value - value associated with the constituent analyzed
- Reported Unit - unit associated with the constituent analyzed and the value obtained
- Code - A letter code indicating the general sample state/phase, defined below
- Sample State - a reiteration of the code, or additional sample characteristics
- Source - indication of the source of the data (ie. Braun, WASTREN, Raw, etc.)

Analyte/Radionuclide Information

- Analyte/Radionuclide - the analyte/radionuclide desired by the WHC ASA Source Term Inventory Validation. This information may be different than the reported chemical/radionuclide since analytes were pulled out of chemical compounds, or extrapolated as in the case with OH used for NaOH.

- $\mu\text{g/L}$ (chemical table) - the reported value converted to micrograms/liter
- Bq/L (radionuclide table) - the reported value converted to Becquerel/liter
- Bq/L Decayed (radionuclide table) - the Bq/L value decayed from the date (described above) to 12/31/94.

Other row indicators and codes are defined here. Row indicators for the ASA Source Term Activity concentration and preliminary ASA Source Term Activity Concentration will divide the data into those data points above, and those below the chosen maximum concentrations. There is also a row indicator for the minimum plot limit. In addition, all the data was given a code to delineate sample type. These codes are as follows:

A Salts	P Supernatant
D Suspended Solids	R Slurry
F Filtrate	S Solid (including: KOH fusion, acid wash, filtered or
G Sludge	centrifuged solids, washed or
I Composite, sludge/composite	fusion solids, slurry/solids,
K Saltcake	supernatant/solids)
L Liquid/Liquor, centrifuged	T Crust
decant, centrate	U Unknown
O Other (must be accompanied with	Y Slurry/Sludge
% solids)	

The ID Column on the tables gives a code which identifies why the sample was not used for the ASA value. The list of codes follows. An asterisk in the column denotes that the sample was chosen as the ASA value.

ID Codes for radionuclide and toxicological tables

1. Units error. $\mu\text{Ci/L}$ incorrectly copied as Ci/L .
2. Information not intended for characterization. These results were taken from PNL 7258, a report on development of analytical procedures and techniques.
3. Information not intended for characterization. The original laboratory report states that the purpose was to develop analytical procedures. Results are not applicable to characterization.
4. TRAC and HTCE Inventory data were not used to establish ASA values. See text of report.
5. This element was not used in ASA Source Term, so the data was not evaluated by the WHC panel.
6. Units, calculation, or conversion error.
7. Tank was an evaporator feed tank. Sample is not related to current tank contents.
8. Value so close to ASA value that it confirms upper bound chosen and is not meaningful to change ASA value.
9. Tank has been sluiced since samples were taken. Material is no longer in tank.
10. Tank was in evaporator bottoms system when sample was taken. Liquid would have been returned to evaporator and does not represent current tank contents.
11. Tank has been pumped since sample was taken. Sample does not represent current contents of tank.

12. Material that was sampled is now buried under saltcake.
13. Error made in copying from original report.
14. Original lab report contains caveats that discredit value or lab report contained an error.
15. Results from 200-series tanks were not used. The contents of the 200-series tanks are not considered representative of the 100-series tanks.
16. The difference between the value and the ASA value is due to different date counting systems used in the decaying process.
17. No analytical data were available. Rather than using TRAC data ^{90}Y is assumed to be equal in concentration to ^{90}Sr . The ^{90}Y concentration is equal to the ASA value for ^{90}Sr .
18. The sample 102-SY-3C does not have a clearly defined density. Two different densities resulted in the difference between the values listed below. The second value was used for ASA calculations before the other density was found.

^{241}Am DST solids	2.97E+09	2.69E+09
^{241}Pu DST solids	5.13E+09	4.14E+09
19. Result as reported is not physically possible.
20. Value in original report was a "less than" value. This means the sample concentration was below the detection limits for the equipment or procedure. The value should not be used.
21. Duplicate result.

22. The ASA value is an implied value. The ASA values that were implied and their source are listed below.

SST liquids	
^{90}Y	Implied from ^{90}Sr
^{241}Pu	Implied from ^{239}Pu
SST solids	
^{90}Y	Implied from ^{90}Sr
^{238}Pu	Implied from ^{239}Pu
^{241}Pu	Implied from ^{239}Pu
^{241}Am	Implied from ^{239}Pu
DST liquids	
^{90}Y	Implied from ^{90}Sr
^{238}Pu	Implied from ^{239}Pu
^{241}Pu	Implied from ^{239}Pu
DST solids	
^{90}Y	Implied from ^{90}Sr
AWF liquids	
^{90}Y	Implied from ^{90}Sr
AWF solids	
^{90}Y	Implied from ^{90}Sr

23. This preliminary value was initially used and is higher than the ASA value due to an error in the radionuclide decay time calculation.
24. The preliminary value was based on a point with an assumed density. The correct density was found and the value was subsequently lowered.
25. The value used for the ASA value is a combined supernatant slurry sample.
26. These are the same sample. The wrong units ($\mu\text{Ci/g}$) were used initially, resulting in the preliminary ASA value. The correct units ($\mu\text{Ci/mL}$) when used yielded a lower value.

27. This point is unverifiable.
28. The analysis technique used is not recommended for the analyte reported.
29. Ferrocyanide sample results are not equivalent to cyanide results for toxicological use.
30. The sample is probably representative of the solids in the tank at the time of sampling. Since then, approximately 60 in. of strontium sludge has been added to the tank. The 60 in. would probably prevent release of the mercury sludge in an accident. However, between this sample and the next 13, the range of concentrations is $2.01\text{E}+07$ to $5.42\text{E}+07$. With this small range, it was decided to go ahead and use the C-107 value of $5.42\text{E}+07$ Bq/L.
31. The laboratory data was not corrected for dilution factors or baseline correction factors.
32. Data from work done for flow sheet development. Not used for characterization.
33. Insufficient back-up for the reported result makes it indefensible.
34. The value is weight percent oxide. This is not used for ASA calculations.
35. Solids that precipitated out of a tank liquid sample when the sample was cooled. It is not representative of the tank solids.
36. Tank has received large quantities of waste since this sample was taken. It is no longer representative.
37. This is a sum of NH_3^+ and OH^- . NH_3 alone is below the ASA line.
38. This value originally came from a solid sample.

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Liquids [Sketch ES-VAL-CC01]
 ASA Value: 3.03E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	As	4/1/90	RAT-C106-4A		390	ugm/gm	U	Unknown	Braun	As	4.29E+05	2
C105	As	4/1/90	RAT-C105-4A		320	ugm/gm	U	Unknown	Braun	As	3.52E+05	2
C102	As	4/1/90	RAT-C102-1		230	ugm/gm	U	Unknown	Braun	As	2.53E+05	2
ASA Value: 3.03E+03 ug/L												
c110	Arsenic	4/23/92	B08VM5	1	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VM5	1	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VH6	1.18	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VH6	1.18	3.03	ug/mL	L	DUPLICATE RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VM5	1	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VM5	1	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VP9	1.1	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VH6	1.18	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
c110	Arsenic	4/23/92	B08VH6	1.18	3.03	ug/mL	L	PRIMARY RESULT	TCD	As	3.03E+03	*
BY109	As	6/3/91	R-8084	1.3	2.56	mg/L	P	Supernatant	RAW	As	2.56E+03	
BY109	As	6/3/91	R-8084	1.3	2.56	mg/l	P	Supernate	Braun	As	2.56E+03	
C102	As	6/3/91			0.0023	g/L	P	Supernate	Wastren	As	2.30E+03	
C102	As	11/20/90	8089	1.15	2	ppm	P	supernate	RAW	As	2.30E+03	
C102	As	6/3/91	R-8089	1.15	2.3	mg/l	P	Supernate	Braun	As	2.30E+03	
BY106	As	6/3/91			0.002	g/L	L	Drainable Liquid	Wastren	As	2.00E+03	
BY102	As	11/20/90	R-8081		2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY103	As	11/14/90			2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY105	As	11/20/90	R-8082		2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY106	As	11/20/90	R8083		2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY106	As	6/3/91	R-8083	1.46	2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY109	As	11/20/90	R8084	1.37	2	mg/L	P	Supernatant	RAW	As	2.00E+03	
BY106	As	6/3/91	R-8083	1.46	2	mg/l	P	Supernate	Braun	As	2.00E+03	
c110	Arsenic	4/23/92	B08VM5	1	1.84	ug/mL	L	PRIMARY RESULT	TCD	As	1.84E+03	
c110	Arsenic	4/23/92	B08VM5	1	1.84	ug/mL	L	PRIMARY RESULT	TCD	As	1.84E+03	
C110	As	11/1/91	1	1	1.84	ug/ml	L	core 37 seg. 3	RAW	As	1.84E+03	
BY103	As	6/3/91			0.0018	g/L	L	Drainable Liquid	Wastren	As	1.80E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Arsenic Single-Shell Tank Liquids [Sketch ES-VAL-CC01]
ASA Value: 3.03E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BY103	As	6/3/91	R-8088	1.45	1.8	mg/L	P	Supernatant	RAW	As	1.80E+03	
BY105	As	6/3/91	R-8082	1.38	1.8	mg/L	P	Supernatant	RAW	As	1.80E+03	
BY103	As	6/3/91	R-8088	1.45	1.8	mg/l	P	Supernate	Braun	As	1.80E+03	
BY105	As	6/3/91	R-8082	1.38	1.8	mg/l	P	Supernate	Braun	As	1.80E+03	
BY102	As	6/3/91			0.00176	g/L	P	Supernate	Wastren	As	1.76E+03	
BY102	As	6/3/91	R-8081	1.42	1.76	mg/L	P	Supernatant	RAW	As	1.76E+03	
BY102	As	6/3/91	R-8081	1.42	1.76	mg/l	P	Supernate	Braun	As	1.76E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	DUPLICATE RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	DUPLICATE RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	DUPLICATE RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VH6	1.18	1.53	ug/mL	L	DUPLICATE RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VH6	1.18	1.53	ug/mL	L	DUPLICATE RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	PRIMARY RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	PRIMARY RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VP9	1.1	1.53	ug/mL	L	PRIMARY RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VH6	1.18	1.53	ug/mL	L	PRIMARY RESULT	TCD	As	1.53E+03	
c110	Arsenic	4/23/92	B08VH6	1.18	1.53	ug/mL	L	PRIMARY RESULT	TCD	As	1.53E+03	
C110	As	11/1/91	1	1.1	1.53	ug/ml	L	core 38 seg. 4	RAW	As	1.53E+03	
C110	As	11/1/91	2	1.1	1.53	ug/ml	L	core 38 seg. 4	RAW	As	1.53E+03	
C110	As	11/1/91	1	1.18	1.53	ug/ml	L	core 39 seg. 3	RAW	As	1.53E+03	
C110	As	11/1/91	2	1.18	1.53	ug/ml	L	core 39 seg. 3	RAW	As	1.53E+03	
c110	Arsenic	4/23/92	B08VM5	1	1.5	ug/mL	L	DUPLICATE RESULT	TCD	As	1.50E+03	
c110	Arsenic	4/23/92	B08VM5	1	1.5	ug/mL	L	DUPLICATE RESULT	TCD	As	1.50E+03	
C110	As	11/1/91	2	1	1.5	ug/ml	L	core 37 seg. 3	RAW	As	1.50E+03	
c112	Arsenic	3/1/92	B08DZ5	1.4	0.6	ug/g	L	DUPLICATE RESULT	TCD	As	8.40E+02	
BY109	As	6/3/91			0.00072	g/L	P	Supernate	Wastren	As	7.20E+02	
BY109	As	6/3/91	R-8094	1.4	0.72	mg/L	P	Supernatant	RAW	As	7.20E+02	
BY109	As	6/3/91	R-8094	1.4	0.72	mg/l	P	Supernate	Braun	As	7.20E+02	
c112	Arsenic	3/1/92	B08DZ5	1.4	0.5	ug/g	L	PRIMARY RESULT	TCD	As	7.00E+02	
t104	Arsenic	8/26/92	B08TQ7	1.1	0.615	ug/mL	L	PRIMARY RESULT	TCD	As	6.15E+02	
C110	As	11/20/90	8087	1.2	0.5	ppm	p	supernate	RAW	As	6.00E+02	
C107	As	6/3/91	R8086	1.14	0.5	PPM	P	supernatant	RAW	As	5.70E+02	
C107	As	6/3/91			0.0005	g/L	L	Drainable Liquid	Wastren	As	5.00E+02	
C110	As	6/3/91			0.0005	g/L	P	Supernate	Wastren	As	5.00E+02	
C107	As	6/3/91	R-8046	1.14	0.5	mg/l	P	Supernate	Braun	As	5.00E+02	
C110	As	6/3/91	R-8087	1.2	0.5	mg/l	P	Supernate	Braun	As	5.00E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Liquids [Sketch ES-VAL-CC01]
 ASA Value: 3.03E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Arsenic	3/1/93	B08V16	1.02	0.39	ug/mL	L	DUPLICATE RESULT	TCD	As	3.90E+02	
t107	Arsenic	3/1/93	B08V16	1.02	0.39	ug/mL	L	DUPLICATE RESULT	TCD	As	3.90E+02	
t107	Arsenic	3/1/93	B08V16	1.02	0.39	ug/mL	L	PRIMARY RESULT	TCD	As	3.90E+02	
t107	Arsenic	3/1/93	B08V16	1.02	0.39	ug/mL	L	PRIMARY RESULT	TCD	As	3.90E+02	
t107	Arsenic	3/1/93	B08V58	1.2	0.39	ug/mL	L	PRIMARY RESULT	TCD	As	3.90E+02	
C103	As	6/3/91			0.00012	g/L	P	Supernate	Wastren	As	1.20E+02	
C103	As	6/3/91	R-8109	1.06	0.12	mg/l	P	Supernate	Braun	As	1.20E+02	
C103	As	6/3/91	R-8108	1.07	0.12	mg/l	P	Supernate	Braun	As	1.20E+02	
C103	As	4/27/90	8108	1.07	0.1	ppm	P	supernate	RAW	As	1.07E+02	
BY105	As	6/3/91			0.00009	g/L	L	Drainable Liquid	Wastren	As	9.00E+01	
BY105	As	6/3/91	R-8092	1.4	0.09	mg/L	P	Supernatant	RAW	As	9.00E+01	
BY105	As	6/3/91	R-8092	1.4	0.09	mg/l	P	Supernate	Braun	As	9.00E+01	
BY102	As	6/3/91	R-8091	1.41	0.07	mg/L	P	Supernatant	RAW	As	7.00E+01	
BY102	As	6/3/91	R-8091	1.41	0.07	mg/l	P	Supernate	Braun	As	7.00E+01	
BY106	As	6/3/91	R-8093	1.47	0.02	mg/L	P	Supernatant	RAW	As	2.00E+01	
BY106	As	6/3/91	R-8093	1.47	0.02	mg/l	P	Supernate	Braun	As	2.00E+01	
Minimum Plot Limit: 1.00E+01 ug/L												
c110	Arsenic	4/23/92	B08VM5	1	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VM5	1	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VH6	1.18	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VH6	1.18	0.0079	ug/mL	L	DUPLICATE RESULT	TCD	As	7.90E+00	
c110	Arsenic	4/23/92	B08VM5	1	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VM5	1	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VP9	1.1	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VH6	1.18	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
c110	Arsenic	4/23/92	B08VH6	1.18	0.0068	ug/mL	L	PRIMARY RESULT	TCD	As	6.80E+00	
t107	Arsenic	3/1/93	B08VB5	1.1	0.975	UG/L	L	DUPLICATE RESULT	TCD	As	9.75E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Arsenic	4/1/90	Core Composite 9	1.32	1398.06907	ug/g	I	DUPLICATE	B110 Core Data	As	1.85E+06	22
B110	Arsenic	4/1/90	CORE 2 SEGMENT 2	1.24	1008.13862	ug/g	I	PRIMARY	B110 Core Data	As	1.25E+06	20
ASA Value: 1.22E+06 ug/L												
c112	Arsenic	3/1/92	B08DN8	1.6	765.1	ug/g	S	DUPLICATE RESULT	TCD	As	1.22E+06	*
c112	Arsenic	3/1/92	B08DN8	1.6	713.3	ug/g	S	PRIMARY RESULT	TCD	As	1.14E+06	
B110	Arsenic	4/1/90	Core Composite 18	1.37	694.694393	ug/g	I	DUPLICATE	B110 Core Data	As	9.52E+05	
C102	As	2/1/91			590	mg/kg	S	KOH Fusion	RAW	As	9.44E+05	
B110	Arsenic	4/1/90	Core Composite 4	1.36	675.586751	ug/g	I	PRIMARY	B110 Core Data	As	9.19E+05	
C102	As	2/1/91			470	mg/kg	S	Na2O2 Fusion	RAW	As	7.52E+05	
B110	Arsenic	4/1/90	CORE 2 SEGMENT 4	1.28	541.007905	ug/g	I	PRIMARY	B110 Core Data	As	6.92E+05	
C106	As	4/1/90			0.683	g/L	G	Sludge	Wastren	As	6.83E+05	
U110	Arsenic	12/1/89	Core 12 Segment 2	1.77	354	ug/g	I	PRIMARY	U110 Core Data	As	6.27E+05	
C106	As	2/1/91			390	mg/kg	S	KOH Fusion	RAW	As	6.24E+05	
b202	Arsenic	6/7/91	B08SP8	0.98	629	mg/kg	S	PRIMARY RESULT	TCD	As	6.16E+05	
U110	Arsenic	12/1/89	Core 12 Segment 2	1.77	335	ug/g	I	DUPLICATE	U110 Core Data	As	5.93E+05	
C105	As	4/1/90			0.56	g/L	G	Sludge	Wastren	As	5.60E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	401	mg/kg	S	PRIMARY RESULT	TCD	As	5.41E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	400.5424	mg/kg	S	PRIMARY RESULT	TCD	As	5.41E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	397	mg/kg	S	PRIMARY RESULT	TCD	As	5.36E+05	
U110	Arsenic	12/1/89	Core Composite 7	1.675	316	ug/g	I	PRIMARY	U110 Core Data	As	5.29E+05	
B110	Arsenic	4/1/90	Core Composite 10	1.34	393.671907	ug/g	I	PRIMARY	B110 Core Data	As	5.28E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	386	mg/kg	S	PRIMARY RESULT	TCD	As	5.21E+05	
C105	As	2/1/91			320	mg/kg	S	KOH Fusion	RAW	As	5.12E+05	
U110	As	11/15/89	89-046/7/8/9		316	ugm/gm	G	Sludge/Composite	Braun	As	5.06E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	372	mg/kg	S	PRIMARY RESULT	TCD	As	5.02E+05	
b202	Arsenic	6/7/91	B08SM4	1.35	333.6022	mg/kg	S	DUPLICATE RESULT	TCD	As	4.50E+05	
C102	As	2/1/91	1		279	mg/kg	S	Total	RAW	As	4.46E+05	
b202	Arsenic	6/7/91	B08SP8	0.98	451	mg/kg	S	PRIMARY RESULT	TCD	As	4.42E+05	
b202	Arsenic	6/7/91	B08SM2	1.02	415	mg/kg	S	PRIMARY RESULT	TCD	As	4.23E+05	
B110	Arsenic	4/1/90	Core Composite 3	1.36	300.645287	ug/g	I	DUPLICATE	B110 Core Data	As	4.09E+05	
U110	Arsenic	12/1/89	Core Composite 6	1.54	262	ug/g	I	PRIMARY	U110 Core Data	As	4.03E+05	
b202	Arsenic	6/7/91	B0BC06	0.99	400.5424	mg/kg	S	PRIMARY RESULT	TCD	As	3.97E+05	
B110	Arsenic	4/1/90	Core Composite 2	1.33	295.693436	ug/g	I	DUPLICATE	B110 Core Data	As	3.93E+05	
B110	Arsenic	4/1/90	Core Composite 10	1.34	293.420055	ug/g	I	DUPLICATE	B110 Core Data	As	3.93E+05	
U110	Arsenic	12/1/89	Core Composite 7	1.675	231	ug/g	I	DUPLICATE	U110 Core Data	As	3.87E+05	
U110	Arsenic	12/1/89	Core 7 Segment 1	1.78	216	ug/g	I	DUPLICATE	U110 Core Data	As	3.84E+05	
b202	Arsenic	6/7/91	B08SP6	0.98	388.203	mg/kg	S	DUPLICATE RESULT	TCD	As	3.80E+05	
U110	Arsenic	12/1/89	Core 13 Segment 3	1.14	332	ug/g	I	DUPLICATE	U110 Core Data	As	3.78E+05	
U110	Arsenic	12/1/89	Core 13 Segment 3	1.14	328	ug/g	I	PRIMARY	U110 Core Data	As	3.74E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
B110	Arsenic	4/1/90	Core Composite 9	1.32	281.106415	ug/g	I	PRIMARY	B110 Core Data	As	3.71E+05			
C102	As	2/1/91			230	mg/kg	S	KOH Fusion	RAW	As	3.68E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	392.0274	mg/kg	S	DUPLICATE RESULT	TCD	As	3.65E+05			
b202	Arsenic	6/7/91	B08SP8	0.98	367	mg/kg	S	PRIMARY RESULT	TCD	As	3.60E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	380	mg/kg	S	PRIMARY RESULT	TCD	As	3.53E+05			
b202	Arsenic	6/7/91	B08SM2	1.02	331.751	mg/kg	S	PRIMARY RESULT	TCD	As	3.38E+05			
b202	Arsenic	6/7/91	B08SP8	0.98	342	mg/kg	S	PRIMARY RESULT	TCD	As	3.35E+05			
b202	Arsenic	6/7/91	B08SP8	0.98	341.9738	mg/kg	S	PRIMARY RESULT	TCD	As	3.35E+05			
U110	Arsenic	12/1/89	Core Composite 7	1.675	200	ug/g	I	DUPLICATE	U110 Core Data	As	3.35E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	356	mg/kg	S	PRIMARY RESULT	TCD	As	3.31E+05			
b202	Arsenic	6/7/91	B0BC06	0.99	333.6022	mg/kg	S	DUPLICATE RESULT	TCD	As	3.30E+05			
B110	Arsenic	4/1/90	Core Composite 1	1.36	236.038447	ug/g	I	PRIMARY	B110 Core Data	As	3.21E+05			
b202	Arsenic	6/7/91	B08SM2	1.02	314.509	mg/kg	S	DUPLICATE RESULT	TCD	As	3.21E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	344	mg/kg	S	PRIMARY RESULT	TCD	As	3.20E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	344	mg/kg	S	PRIMARY RESULT	TCD	As	3.20E+05			
b202	Arsenic	6/7/91	B08SK0	0.93	343.5363	mg/kg	S	PRIMARY RESULT	TCD	As	3.19E+05			
B110	Arsenic	4/1/90	Core Composite 1	1.36	228.738289	ug/g	I	PRIMARY	B110 Core Data	As	3.11E+05			
b202	Arsenic	6/7/91	B08SP6	0.98	317	mg/kg	S	PRIMARY RESULT	TCD	As	3.11E+05			
b202	Arsenic	6/7/91	B08SP6	0.98	316.5073	mg/kg	S	PRIMARY RESULT	TCD	As	3.10E+05			
b202	Arsenic	6/7/91	B08SP8	0.98	308.995	mg/kg	S	DUPLICATE RESULT	TCD	As	3.03E+05			
b202	Arsenic	6/7/91	B0BC06	0.99	304	mg/kg	S	PRIMARY RESULT	TCD	As	3.01E+05			
b202	Arsenic	6/7/91	B0BC06	0.99	304	mg/kg	S	PRIMARY RESULT	TCD	As	3.01E+05			
U110	Arsenic	12/1/89	Core 15 Segment 3	1.3	224	ug/g	I	DUPLICATE	U110 Core Data	As	2.91E+05			
b202	Arsenic	6/7/91	B0BC06	0.99	292	mg/kg	S	PRIMARY RESULT	TCD	As	2.89E+05			
b202	Arsenic	6/7/91	B0BC06	0.99	291	mg/kg	S	PRIMARY RESULT	TCD	As	2.88E+05			
c112	Arsenic	3/1/92	B08DY1	2	134.3	ug/g	S	DUPLICATE RESULT	TCD	As	2.69E+05			
U110	Arsenic	12/1/89	Core 15 Segment 4	1.31	202	ug/g	I	DUPLICATE	U110 Core Data	As	2.65E+05			
U110	As	11/29/89	89-072		165	ugm/gm	G	Sludge	Braun	As	2.64E+05			
t102	Arsenic	3/1/93	B0B732	1.32	194	ug/g	S	DUPLICATE RESULT	TCD	As	2.56E+05			
U110	Arsenic	12/1/89	Core 12 Segment 4	1.48	165	ug/g	I	PRIMARY	U110 Core Data	As	2.44E+05			
t102	Arsenic	3/1/93	B0B732	1.32	177	ug/g	S	DUPLICATE RESULT	TCD	As	2.34E+05			
B110	Arsenic	4/1/90	Core Composite 1	1.36	165.470252	ug/g	I	DUPLICATE	B110 Core Data	As	2.25E+05			
B110	Arsenic	4/1/90	Core Composite 3	1.36	163.766132	ug/g	I	PRIMARY	B110 Core Data	As	2.23E+05			
B110	Arsenic	4/1/90	Core Composite 4	1.36	162.316297	ug/g	I	DUPLICATE	B110 Core Data	As	2.21E+05			
b202	Arsenic	6/7/91	B08SP6	0.98	225	mg/kg	S	PRIMARY RESULT	TCD	As	2.21E+05			
t107	Arsenic	3/1/93	B08VD8	1.42	148	ug/g	S	PRIMARY RESULT	TCD	As	2.10E+05			
t107	Arsenic	3/1/93	B08VD8	1.42	147	ug/g	S	DUPLICATE RESULT	TCD	As	2.09E+05			
t102	Arsenic	3/1/93	B0B732	1.32	156	ug/g	S	PRIMARY RESULT	TCD	As	2.06E+05			
U110	Arsenic	12/1/89	Core Composite 5	1.04	196.35837	ug/g	I	PRIMARY	U110 Core Data	As	2.04E+05			
U110	As	12/4/89	89-084		127	ugm/gm	G	Sludge	Braun	As	2.03E+05			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Arsenic	4/1/90	Core Composite 1	1.36	141.136391	ug/g	I	DUPLICATE	B110 Core Data	As	1.92E+05	
b202	Arsenic	6/7/91	B08SM2	1.02	188	mg/kg	S	PRIMARY RESULT	TCD	As	1.92E+05	
U110	Arsenic	12/1/89	Core Composite 7	1.675	114	ug/g	I	PRIMARY	U110 Core Data	As	1.91E+05	
b202	Arsenic	6/7/91	B08SP6	0.98	193	mg/kg	S	PRIMARY RESULT	TCD	As	1.89E+05	
b202	Arsenic	6/7/91	B08SM2	1.02	181	mg/kg	S	PRIMARY RESULT	TCD	As	1.85E+05	
U110	Arsenic	12/1/89	Core 6 Segment 2	1.59	113	ug/g	I	PRIMARY	U110 Core Data	As	1.80E+05	
U110	As	12/4/89	89-083		112	ugm/gm	G	Sludge	Braun	As	1.79E+05	
t107	Arsenic	3/1/93	B08VB9	1.19	148	ug/g	S	DUPLICATE RESULT	TCD	As	1.76E+05	
t107	Arsenic	3/1/93	B08VB9	1.19	148	ug/g	S	PRIMARY RESULT	TCD	As	1.76E+05	
t107	Arsenic	3/1/93	B08VB9	1.19	148	ug/g	S	PRIMARY RESULT	TCD	As	1.76E+05	
B110	Arsenic	4/1/90	Core Composite 18	1.37	123.798507	ug/g	I	PRIMARY	B110 Core Data	As	1.70E+05	
b202	Arsenic	6/7/91	B08SP6	0.98	171	mg/kg	S	PRIMARY RESULT	TCD	As	1.68E+05	
U110	Arsenic	12/1/89	Core 15 Segment 4	1.31	127	ug/g	I	PRIMARY	U110 Core Data	As	1.66E+05	
U110	Arsenic	12/1/89	Core 14 Segment 2	1.39	119	ug/g	I	DUPLICATE	U110 Core Data	As	1.65E+05	
U110	Arsenic	12/1/89	Core 7 Segment 1	1.78	92	ug/g	I	PRIMARY	U110 Core Data	As	1.64E+05	
U110	Arsenic	12/1/89	Core Composite 6	1.54	106	ug/g	I	DUPLICATE	U110 Core Data	As	1.63E+05	
b202	Arsenic	6/7/91	B08SM2	1.02	155	mg/kg	S	PRIMARY RESULT	TCD	As	1.58E+05	
B110	Arsenic	4/1/90	CORE 4 SEGMENT 3	1.3	121.150934	ug/g	I	PRIMARY	B110 Core Data	As	1.57E+05	
c112	Arsenic	3/1/92	B08DN8	1.6	96.5	ug/g	S	DUPLICATE RESULT	TCD	As	1.54E+05	
B110	Arsenic	4/1/90	Core Composite 3	1.36	112.436449	ug/g	I	DUPLICATE	B110 Core Data	As	1.53E+05	
U110	Arsenic	12/1/89	Core Composite 5	1.04	145	ug/g	I	DUPLICATE	U110 Core Data	As	1.51E+05	
U110	Arsenic	12/1/89	Core 7 Segment 2	1.46	103	ug/g	I	PRIMARY	U110 Core Data	As	1.50E+05	
U110	As	11/15/89	89-046		92	ugm/gm	G	Sludge	Braun	As	1.47E+05	
c112	Arsenic	3/1/92	B08DY1	2	73.1	ug/g	S	PRIMARY RESULT	TCD	As	1.46E+05	
U110	Arsenic	12/1/89	Core 15 Segment 3	1.3	112	ug/g	I	PRIMARY	U110 Core Data	As	1.46E+05	
c112	Arsenic	3/1/92	B08DN8	1.6	82.7	ug/g	S	PRIMARY RESULT	TCD	As	1.32E+05	
U110	Arsenic	12/1/89	Core 12 Segment 4	1.48	89	ug/g	I	DUPLICATE	U110 Core Data	As	1.32E+05	
U110	Arsenic	12/1/89	Core 7 Segment 4	1.93	68	ug/g	I	DUPLICATE	U110 Core Data	As	1.31E+05	
U110	Arsenic	12/1/89	Core 7 Segment 3	1.53	82	ug/g	I	PRIMARY	U110 Core Data	As	1.25E+05	
U110	Arsenic	12/1/89	Core 6 Segment 4	1.8	69	ug/g	I	DUPLICATE	U110 Core Data	As	1.24E+05	
U110	As	12/3/89	89-078		73	ugm/gm	G	Sludge	Braun	As	1.17E+05	
U110	Arsenic	12/1/89	Core 6 Segment 2	1.59	73	ug/g	I	DUPLICATE	U110 Core Data	As	1.16E+05	
U110	Arsenic	12/1/89	Core 7 Segment 3	1.53	75	ug/g	I	DUPLICATE	U110 Core Data	As	1.15E+05	
U110	Arsenic	12/1/89	Core 14 Segment 1	1.5	74	ug/g	I	DUPLICATE	U110 Core Data	As	1.11E+05	
U110	Arsenic	12/1/89	Core 14 Segment 1	1.5	74	ug/g	I	PRIMARY	U110 Core Data	As	1.11E+05	
U110	Arsenic	12/1/89	Core 7 Segment 4	1.93	57	ug/g	I	PRIMARY	U110 Core Data	As	1.10E+05	
U110	Arsenic	12/1/89	Core 14 Segment 4	1.62	67	ug/g	I	DUPLICATE	U110 Core Data	As	1.09E+05	
U110	Arsenic	12/1/89	Core Composite 12	1.42	76	ug/g	I	PRIMARY	U110 Core Data	As	1.08E+05	
U110	Arsenic	12/1/89	Core 7 Segment 2	1.46	72	ug/g	I	DUPLICATE	U110 Core Data	As	1.05E+05	
U110	Arsenic	12/1/89	Core 15 Segment 2	1.27	82	ug/g	I	DUPLICATE	U110 Core Data	As	1.04E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Arsenic	12/1/89	Core Composite 14	1.48	70	ug/g	I	DUPLICATE	U110 Core Data	As	1.04E+05	
U110	Arsenic	12/1/89	Core Composite 14	1.48	70	ug/g	I	PRIMARY	U110 Core Data	As	1.04E+05	
B110	Arsenic	4/1/90	Core Composite 3	1.36	75.77239	ug/g	I	PRIMARY	B110 Core Data	As	1.03E+05	
c112	Arsenic	3/1/92	B08DY1	2	51.3	ug/g	S	DUPLICATE RESULT	TCD	As	1.03E+05	
U110	Arsenic	12/1/89	Core 14 Segment 2	1.39	73	ug/g	I	PRIMARY	U110 Core Data	As	1.01E+05	
U110	Arsenic	12/1/89	Core Composite 12	1.42	70	ug/g	I	DUPLICATE	U110 Core Data	As	9.94E+04	
U110	Arsenic	12/1/89	Core 13 Segment 4	1.46	67	ug/g	I	DUPLICATE	U110 Core Data	As	9.78E+04	
U110	Arsenic	12/1/89	Core 6 Segment 4	1.8	54	ug/g	I	PRIMARY	U110 Core Data	As	9.72E+04	
U110	Arsenic	12/1/89	Core 6 Segment 3	1.22	79	ug/g	I	DUPLICATE	U110 Core Data	As	9.64E+04	
c112	Arsenic	3/1/92	B08DN6	1.3	73.2	ug/g	S	DUPLICATE RESULT	TCD	As	9.52E+04	
U110	Arsenic	12/1/89	Core 13 Segment 4	1.46	64	ug/g	I	PRIMARY	U110 Core Data	As	9.34E+04	
c112	Arsenic	3/1/92	B08DY1	2	46.4	ug/g	S	PRIMARY RESULT	TCD	As	9.28E+04	
U110	Arsenic	12/1/89	Core 14 Segment 4	1.62	57	ug/g	I	PRIMARY	U110 Core Data	As	9.23E+04	
c112	Arsenic	3/1/92	B08DY1	2	44.7	ug/g	S	DUPLICATE RESULT	TCD	As	8.94E+04	
c112	Arsenic	3/1/92	B08DY1	2	44.3	ug/g	S	PRIMARY RESULT	TCD	As	8.86E+04	
B110	Arsenic	4/1/90	CORE 3 SEGMENT 5	1.3	67.979372	ug/g	I	PRIMARY	B110 Core Data	As	8.84E+04	
c112	Arsenic	3/1/92	B08DN6	1.3	67.6	ug/g	S	PRIMARY RESULT	TCD	As	8.79E+04	
U110	Arsenic	12/1/89	Core 15 Segment 2	1.27	69	ug/g	I	PRIMARY	U110 Core Data	As	8.76E+04	
U110	Arsenic	12/1/89	Core 6 Segment 3	1.22	71	ug/g	I	PRIMARY	U110 Core Data	As	8.66E+04	
c112	Arsenic	3/1/92	B08DN6	1.3	66.5	ug/g	S	DUPLICATE RESULT	TCD	As	8.65E+04	
U110	Arsenic	12/1/89	Core Composite 15	1.29	66	ug/g	I	DUPLICATE	U110 Core Data	As	8.51E+04	
U110	Arsenic	12/1/89	Core Composite 15	1.29	66	ug/g	I	PRIMARY	U110 Core Data	As	8.51E+04	
C102	As	2/1/91	2		48	mg/kg	S	water leach	RAW	As	7.68E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	46.6	ug/g	S	DUPLICATE RESULT	TCD	As	7.46E+04	
B110	Arsenic	4/1/90	CORE 3 SEGMENT 3	1.3	57.217785	ug/g	I	PRIMARY	B110 Core Data	As	7.44E+04	
B110	Arsenic	4/1/90	CORE 2 SEGMENT 3	1.29	56.451415	ug/g	I	DUPLICATE	B110 Core Data	As	7.28E+04	
c112	Arsenic	3/1/92	B08DY1	2	35.9	ug/g	S	DUPLICATE RESULT	TCD	As	7.18E+04	
B110	Arsenic	4/1/90	CORE 2 SEGMENT 4	1.28	54.347826	ug/g	I	DUPLICATE	B110 Core Data	As	6.96E+04	
C102	As	2/1/91	2		42	mg/kg	S	Total	RAW	As	6.72E+04	
C102	As	2/1/91	2		42	mg/kg	S	water leach	RAW	As	6.72E+04	
U110	Arsenic	12/1/89	Core 12 Segment 3	1	67	ug/g	I	DUPLICATE	U110 Core Data	As	6.70E+04	
U110	Arsenic	12/1/89	Core 12 Segment 3	1	64	ug/g	I	PRIMARY	U110 Core Data	As	6.40E+04	
B110	Arsenic	4/1/90	CORE 2 SEGMENT 3	1.29	49.088187	ug/g	I	PRIMARY	B110 Core Data	As	6.33E+04	
B110	Arsenic	4/1/90	CORE 2 SEGMENT 4	1.28	49.407115	ug/g	I	PRIMARY	B110 Core Data	As	6.32E+04	
C102	As	2/1/91	1		39	mg/kg	S	water leach	RAW	As	6.24E+04	
C106	As	7/22/88			37	mg/kg	G	Sludge	RAW	As	5.92E+04	
C106	As	8/1/88	2		37	mg/kg	S		RAW	As	5.92E+04	
B110	Arsenic	4/1/90	Core Composite 9	1.32	42.290346	ug/g	I	PRIMARY	B110 Core Data	As	5.58E+04	
B110	Arsenic	4/1/90	CORE 3 SEGMENT 3	1.3	42.913339	ug/g	I	DUPLICATE	B110 Core Data	As	5.58E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	27.7	ug/g	S	DUPLICATE RESULT	TCD	As	5.57E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Arsenic	5/28/93	B08WT4	2.01	27.7	ug/g	S	PRIMARY RESULT	TCD	As	5.57E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.9	ug/g	S	DUPLICATE RESULT	TCD	As	5.41E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.9	ug/g	S	DUPLICATE RESULT	TCD	As	5.41E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.9	ug/g	S	PRIMARY RESULT	TCD	As	5.41E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.8	ug/g	S	DUPLICATE RESULT	TCD	As	5.39E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.8	ug/g	S	PRIMARY RESULT	TCD	As	5.39E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26.6	ug/g	S	PRIMARY RESULT	TCD	As	5.35E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	33	ug/g	S	PRIMARY RESULT	TCD	As	5.28E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	32.7	ug/g	S	DUPLICATE RESULT	TCD	As	5.23E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	32.7	ug/g	S	PRIMARY RESULT	TCD	As	5.23E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	26	ug/g	S	DUPLICATE RESULT	TCD	As	5.23E+04	
T105	As	10/26/93	RAT-T105-2B	2.01	26	ugm/gm	G	Sludge/Composite	Braun	As	5.23E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	32.5	ug/g	S	DUPLICATE RESULT	TCD	As	5.20E+04	
C102	As	2/1/91	1		32	mg/kg	S	water leach	RAW	As	5.12E+04	
U110	Arsenic	12/1/89	Core 14 Segment 3	1.4	36	ug/g	I	PRIMARY	U110 Core Data	As	5.04E+04	
B110	Arsenic	4/1/90	Core Composite 3	1.36	36.664059	ug/g	I	DUPLICATE	B110 Core Data	As	4.99E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	30.4	ug/g	S	PRIMARY RESULT	TCD	As	4.86E+04	
U110	Arsenic	12/1/89	Core Composite 13	1.3	37	ug/g	I	DUPLICATE	U110 Core Data	As	4.81E+04	
c112	Arsenic	3/1/92	B08DN6	1.3	36.7	ug/g	S	PRIMARY RESULT	TCD	As	4.77E+04	
U110	Arsenic	12/1/89	Core 14 Segment 3	1.4	34	ug/g	I	DUPLICATE	U110 Core Data	As	4.76E+04	
U110	Arsenic	12/1/89	Core Composite 13	1.3	36	ug/g	I	PRIMARY	U110 Core Data	As	4.68E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	28.4	ug/g	S	DUPLICATE RESULT	TCD	As	4.54E+04	
c112	Arsenic	3/1/92	B08DM7	1.6	24.4	ug/g	S	PRIMARY RESULT	TCD	As	3.90E+04	
B110	Arsenic	4/1/90	Core Composite 18	1.37	28.249331	ug/g	I	DUPLICATE	B110 Core Data	As	3.87E+04	
B110	Arsenic	4/1/90	Core Composite 2	1.33	25.814506	ug/g	I	PRIMARY	B110 Core Data	As	3.43E+04	
S104	As	4/13/90			0.0338	g/L	G	Sludge	Wastren	As	3.38E+04	
t107	Arsenic	3/1/93	B08VR2	1.735	19.3	ug/g	S	DUPLICATE RESULT	TCD	As	3.35E+04	
t107	Arsenic	3/1/93	B08VR2	1.735	19.3	ug/g	S	PRIMARY RESULT	TCD	As	3.35E+04	
s104	Arsenic	8/1/92	B08TJ4	1.6	19.4	mg/kg	S	PRIMARY RESULT	TCD	As	3.10E+04	
s104	Arsenic	8/1/92	B08TJ4		19.4	mg/kg	S	PRIMARY RESULT	TCD	As	3.10E+04	
s104	Arsenic	8/1/92	B08TJ4	1.6	19.3	mg/kg	S	DUPLICATE RESULT	TCD	As	3.09E+04	
s104	Arsenic	8/1/92	B08TJ4		19.3	mg/kg	S	DUPLICATE RESULT	TCD	As	3.09E+04	
t107	Arsenic	3/1/93	B08VD9	1.305	23.5	ug/g	S	PRIMARY RESULT	TCD	As	3.07E+04	
s104	Arsenic	8/1/92	B08TJ5	1.6	19.1	mg/kg	S	PRIMARY RESULT	TCD	As	3.06E+04	
s104	Arsenic	8/1/92	B08TJ5		19.1	mg/kg	S	PRIMARY RESULT	TCD	As	3.06E+04	
t107	Arsenic	3/1/93	B08V39	1.57	19.4	ug/g	S	DUPLICATE RESULT	TCD	As	3.05E+04	
t107	Arsenic	3/1/93	B08V39	1.57	19.4	ug/g	S	PRIMARY RESULT	TCD	As	3.05E+04	
s104	Arsenic	8/1/92	B08TJ5	1.6	19	mg/kg	S	DUPLICATE RESULT	TCD	As	3.04E+04	
s104	Arsenic	8/1/92	B08TJ5		19	mg/kg	S	DUPLICATE RESULT	TCD	As	3.04E+04	
t105	Arsenic	5/28/93	B08WT4	2.01	14.9	ug/g	S	PRIMARY RESULT	TCD	As	2.99E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Arsenic	3/1/93	B08TZ2	1.29	22.3	ug/g	S	PRIMARY RESULT	TCD	As	2.88E+04	
t107	Arsenic	3/1/93	B08VF0	1.38	19.4	ug/g	S	PRIMARY RESULT	TCD	As	2.68E+04	
t107	Arsenic	3/1/93	B08VF0	1.38	19.3	ug/g	S	PRIMARY RESULT	TCD	As	2.66E+04	
t107	Arsenic	3/1/93	B08VF0	1.38	19.2	ug/g	S	DUPLICATE RESULT	TCD	As	2.65E+04	
t107	Arsenic	3/1/93	B08VD9	1.305	19.4	ug/g	S	DUPLICATE RESULT	TCD	As	2.53E+04	
t107	Arsenic	3/1/93	B08TZ2	1.29	19.4	ug/g	S	DUPLICATE RESULT	TCD	As	2.50E+04	
s104	Arsenic	8/1/92	B08TL3	1.6	15.5	mg/kg	S	DUPLICATE RESULT	TCD	As	2.48E+04	
s104	Arsenic	8/1/92	B08TL3		15.5	mg/kg	S	DUPLICATE RESULT	TCD	As	2.48E+04	
s104	Arsenic	8/1/92	B08TL4	1.6	15.4	mg/kg	S	DUPLICATE RESULT	TCD	As	2.46E+04	
s104	Arsenic	8/1/92	B08TL4		15.4	mg/kg	S	DUPLICATE RESULT	TCD	As	2.46E+04	
s104	Arsenic	8/1/92	B08TL3	1.6	15.3	mg/kg	S	PRIMARY RESULT	TCD	As	2.45E+04	
s104	Arsenic	8/1/92	B08TL4	1.6	15.3	mg/kg	S	PRIMARY RESULT	TCD	As	2.45E+04	
s104	Arsenic	8/1/92	B08TL3		15.3	mg/kg	S	PRIMARY RESULT	TCD	As	2.45E+04	
s104	Arsenic	8/1/92	B08TL4		15.3	mg/kg	S	PRIMARY RESULT	TCD	As	2.45E+04	
s104	Arsenic	8/1/92	B08TF6	1.6	15	mg/kg	S	DUPLICATE RESULT	TCD	As	2.40E+04	
s104	Arsenic	8/1/92	B08TF6		15	mg/kg	S	DUPLICATE RESULT	TCD	As	2.40E+04	
s104	Arsenic	8/1/92	B08TF6	1.6	15	mg/kg	S	PRIMARY RESULT	TCD	As	2.40E+04	
s104	Arsenic	8/1/92	B08TF6		15	mg/kg	S	PRIMARY RESULT	TCD	As	2.40E+04	
T111	As	8/7/92	J-466		15	ugm/gm	G	Sludge/Composite	Braun	As	2.40E+04	
T111	As	8/7/92	J-470		15	ugm/gm	G	Sludge/Composite	Braun	As	2.40E+04	
BX107	As	10/20/92	J926-AV		14.98505	ugm/gm	G	Sludge/Composite	Braun	As	2.40E+04	
BX107	As	10/20/92	J927-AV		14.98505	ugm/gm	G	Sludge/Composite	Braun	As	2.40E+04	
BX107	As	10/20/92	J924-AV		14.9701	ugm/gm	G	Sludge/Composite	Braun	As	2.40E+04	
BX107	As	10/20/92	J925-AV		14.9402	ugm/gm	G	Sludge/Composite	Braun	As	2.39E+04	
s104	Arsenic	8/1/92	B08TF7	1.6	14.9	mg/kg	S	DUPLICATE RESULT	TCD	As	2.38E+04	
s104	Arsenic	8/1/92	B08TF7		14.9	mg/kg	S	DUPLICATE RESULT	TCD	As	2.38E+04	
s104	Arsenic	8/1/92	B08TF7	1.6	14.8	mg/kg	S	PRIMARY RESULT	TCD	As	2.37E+04	
s104	Arsenic	8/1/92	B08TF7		14.8	mg/kg	S	PRIMARY RESULT	TCD	As	2.37E+04	
t107	Arsenic	3/1/93	B08VB9	1.19	19.5	ug/g	S	DUPLICATE RESULT	TCD	As	2.32E+04	
B110	Arsenic	4/1/90	Core Composite 9	1.32	17.413672	ug/g	I	DUPLICATE	B110 Core Data	As	2.30E+04	
t107	Arsenic	3/1/93	B08VB9	1.19	19.3	ug/g	S	PRIMARY RESULT	TCD	As	2.30E+04	
t107	Arsenic	3/1/93	B08V43	1.15	19.5	ug/g	S	DUPLICATE RESULT	TCD	As	2.24E+04	
t107	Arsenic	3/1/93	B08V43	1.15	19	ug/g	S	PRIMARY RESULT	TCD	As	2.19E+04	
B110	Arsenic	4/1/90	Core Composite 2	1.33	16.427413	ug/g	I	DUPLICATE	B110 Core Data	As	2.18E+04	
t107	Arsenic	3/1/93	B08V43	1.15	18.3	ug/g	S	PRIMARY RESULT	TCD	As	2.10E+04	
t107	Arsenic	3/1/93	B08V44	1.1	19	ug/g	S	DUPLICATE RESULT	TCD	As	2.09E+04	
B110	Arsenic	4/1/90	Core Composite 4	1.36	15.354244	ug/g	I	PRIMARY	B110 Core Data	As	2.09E+04	
t107	Arsenic	3/1/93	B08V43	1.15	18	ug/g	S	DUPLICATE RESULT	TCD	As	2.07E+04	
t107	Arsenic	3/1/93	B08V44	1.1	18.8	ug/g	S	PRIMARY RESULT	TCD	As	2.07E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Arsenic	3/1/93	B08V44	1.1	18.8	ug/g	S	PRIMARY RESULT	TCD	As	2.07E+04	
t107	Arsenic	3/1/93	B08V44	1.1	18.7	ug/g	S	DUPLICATE RESULT	TCD	As	2.06E+04	
B110	Arsenic	4/1/90	Core Composite 1	1.36	14.600316	ug/g	I	PRIMARY	B110 Core Data	As	1.99E+04	
t107	Arsenic	3/1/93	B08TZ3	0.95	19.3	ug/g	S	DUPLICATE RESULT	TCD	As	1.83E+04	
t107	Arsenic	3/1/93	B08TZ3	0.95	19.3	ug/g	S	PRIMARY RESULT	TCD	As	1.83E+04	
b202	Arsenic	6/7/91	B08SP5	0.87	18.9	mg/kg	S	PRIMARY RESULT	TCD	As	1.64E+04	
B110	Arsenic	4/1/90	Core Composite 4	1.36	10.967317	ug/g	I	DUPLICATE	B110 Core Data	As	1.49E+04	
t105	Arsenic	5/28/93	B08WT2	0.89	14.8	mg/kg	S	DUPLICATE RESULT	TCD	As	1.32E+04	
t105	Arsenic	5/28/93	B08WT2	0.89	14.8	mg/kg	S	PRIMARY RESULT	TCD	As	1.32E+04	
B110	Arsenic	4/1/90	Core Composite 9	1.32	9.95067	ug/g	I	DUPLICATE	B110 Core Data	As	1.31E+04	
B110	Arsenic	4/1/90	Core Composite 9	1.32	9.95067	ug/g	I	PRIMARY	B110 Core Data	As	1.31E+04	
B110	Arsenic	4/1/90	CORE 4 SEGMENT 3	1.3	10.095911	ug/g	I	DUPLICATE	B110 Core Data	As	1.31E+04	
B110	Arsenic	4/1/90	Core Composite 2	1.33	9.387093	ug/g	I	PRIMARY	B110 Core Data	As	1.25E+04	
b202	Arsenic	6/7/91	B08SP5	0.87	12.9	mg/kg	S	PRIMARY RESULT	TCD	As	1.12E+04	
B110	Arsenic	4/1/90	Core Composite 18	1.37	7.793026	ug/g	I	PRIMARY	B110 Core Data	As	1.07E+04	
b202	Arsenic	6/7/91	B08SP5	0.87	12.126	mg/kg	S	DUPLICATE RESULT	TCD	As	1.05E+04	
b202	Arsenic	6/7/91	B08SP5	0.87	11.6305	mg/kg	S	PRIMARY RESULT	TCD	As	1.01E+04	
s104	Arsenic	8/1/92	B08S50	1.6	6.32	mg/kg	S	DUPLICATE RESULT	TCD	As	1.01E+04	
s104	Arsenic	8/1/92	B08S50		6.32	mg/kg	S	DUPLICATE RESULT	TCD	As	1.01E+04	
b202	Arsenic	6/7/91	B08SP5	0.87	11.6	mg/kg	S	PRIMARY RESULT	TCD	As	1.01E+04	
B110	Arsenic	4/1/90	Core Composite 3	1.36	7.332812	ug/g	I	PRIMARY	B110 Core Data	As	9.97E+03	
B110	Arsenic	4/1/90	Core Composite 10	1.34	7.335501	ug/g	I	PRIMARY	B110 Core Data	As	9.83E+03	
b202	Arsenic	6/7/91	B08SP5	0.87	11.1	mg/kg	S	PRIMARY RESULT	TCD	As	9.66E+03	
B110	Arsenic	4/1/90	Core Composite 18	1.37	6.988874	ug/g	I	PRIMARY	B110 Core Data	As	9.57E+03	
B110	Arsenic	4/1/90	Core Composite 18	1.37	6.957767	ug/g	I	DUPLICATE	B110 Core Data	As	9.53E+03	
B110	Arsenic	4/1/90	Core Composite 2	1.33	7.04032	ug/g	I	PRIMARY	B110 Core Data	As	9.36E+03	
s104	Arsenic	8/1/92	B08TL4	1.6	5.83	mg/kg	S	DUPLICATE RESULT	TCD	As	9.33E+03	
s104	Arsenic	8/1/92	B08TL4		5.83	mg/kg	S	DUPLICATE RESULT	TCD	As	9.33E+03	
B110	Arsenic	4/1/90	Core Composite 4	1.36	6.58039	ug/g	I	DUPLICATE	B110 Core Data	As	8.95E+03	
B110	Arsenic	4/1/90	Core Composite 4	1.36	6.58039	ug/g	I	PRIMARY	B110 Core Data	As	8.95E+03	
t107	Arsenic	3/1/93	B08TZ2	1.29	6.86	ug/g	S	PRIMARY RESULT	TCD	As	8.85E+03	
t107	Arsenic	3/1/93	B08TZ2	1.29	6.66	ug/g	S	DUPLICATE RESULT	TCD	As	8.59E+03	
s104	Arsenic	8/1/92	B08TL4	1.6	5.08	mg/kg	S	PRIMARY RESULT	TCD	As	8.13E+03	
s104	Arsenic	8/1/92	B08TL4		5.08	mg/kg	S	PRIMARY RESULT	TCD	As	8.13E+03	
t107	Arsenic	3/1/93	B08TZ2	1.29	6.27	ug/g	S	PRIMARY RESULT	TCD	As	8.09E+03	
bx107	Arsenic	6/1/92	B08SD6	0.996	7.5256	ug/g	S	PRIMARY RESULT	TCD	As	7.49E+03	
s104	Arsenic	8/1/92	B08S50	1.6	4.62	mg/kg	S	PRIMARY RESULT	TCD	As	7.39E+03	
s104	Arsenic	8/1/92	B08S50		4.62	mg/kg	S	PRIMARY RESULT	TCD	As	7.39E+03	
t104	Arsenic	8/26/92	B08S09	1.13	6.52	mg/kg	S	DUPLICATE RESULT	TCD	As	7.37E+03	
B110	Arsenic	4/1/90	Core Composite 10	1.34	4.890334	ug/g	I	DUPLICATE	B110 Core Data	As	6.55E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Arsenic	4/1/90	Core Composite 10	1.34	4.890334	ug/g	I	PRIMARY	B110 Core Data	As	6.55E+03	
bx107	Arsenic	6/1/92	B08SD6	0.996	6.3249	ug/g	S	PRIMARY RESULT	TCD	As	6.30E+03	
B110	Arsenic	4/1/90	Core Composite 2	1.33	4.693547	ug/g	I	DUPLICATE	B110 Core Data	As	6.24E+03	
t107	Arsenic	3/1/93	B08VF0	1.38	4.5	ug/g	S	DUPLICATE RESULT	TCD	As	6.21E+03	
bx107	Arsenic	6/1/92	B08SD6	0.996	6.1207	ug/g	S	DUPLICATE RESULT	TCD	As	6.09E+03	
s104	Arsenic	8/1/92	B08S46	1.6	3.79	mg/kg	S	PRIMARY RESULT	TCD	As	6.06E+03	
s104	Arsenic	8/1/92	B08S46		3.79	mg/kg	S	PRIMARY RESULT	TCD	As	6.06E+03	
bx107	Arsenic	6/1/92	B08SD6	0.996	6.0665	ug/g	S	DUPLICATE RESULT	TCD	As	6.04E+03	
s104	Arsenic	8/1/92	B08S46	1.6	3.73	mg/kg	S	DUPLICATE RESULT	TCD	As	5.97E+03	
s104	Arsenic	8/1/92	B08S46		3.73	mg/kg	S	DUPLICATE RESULT	TCD	As	5.97E+03	
s104	Arsenic	8/1/92	B08S46	1.6	3.73	mg/kg	S	PRIMARY RESULT	TCD	As	5.97E+03	
s104	Arsenic	8/1/92	B08S46		3.73	mg/kg	S	PRIMARY RESULT	TCD	As	5.97E+03	
s104	Arsenic	8/1/92	B08S46	1.6	3.71	mg/kg	S	DUPLICATE RESULT	TCD	As	5.94E+03	
s104	Arsenic	8/1/92	B08S46		3.71	mg/kg	S	DUPLICATE RESULT	TCD	As	5.94E+03	
t107	Arsenic	3/1/93	B08VB9	1.19	4.63	ug/g	S	PRIMARY RESULT	TCD	As	5.51E+03	
t107	Arsenic	3/1/93	B08V43	1.15	4.71	ug/g	S	PRIMARY RESULT	TCD	As	5.42E+03	
t107	Arsenic	3/1/93	B08V43	1.15	4.65	ug/g	S	DUPLICATE RESULT	TCD	As	5.35E+03	
t111	Arsenic	11/1/91	B08SV7	1.09	4.9	ug/g	S	PRIMARY RESULT	TCD	As	5.34E+03	
t107	Arsenic	3/1/93	B08V43	1.15	4.53	ug/g	S	PRIMARY RESULT	TCD	As	5.21E+03	
t111	Arsenic	11/1/91	B08SV7	1.09	4.7	ug/g	S	DUPLICATE RESULT	TCD	As	5.12E+03	
s104	Arsenic	8/1/92	B08TL3	1.6	3.16	mg/kg	S	DUPLICATE RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL4	1.6	3.16	mg/kg	S	DUPLICATE RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL3		3.16	mg/kg	S	DUPLICATE RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL4		3.16	mg/kg	S	DUPLICATE RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL3	1.6	3.16	mg/kg	S	PRIMARY RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL4	1.6	3.16	mg/kg	S	PRIMARY RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL3		3.16	mg/kg	S	PRIMARY RESULT	TCD	As	5.06E+03	
s104	Arsenic	8/1/92	B08TL4		3.16	mg/kg	S	PRIMARY RESULT	TCD	As	5.06E+03	
BX107	As	10/20/92	J925-AV		3.16	ugm/gm	G	Sludge/Composite	Braun	As	5.06E+03	
t107	Arsenic	3/1/93	B08TZ2	1.29	3.9	ug/g	S	DUPLICATE RESULT	TCD	As	5.03E+03	
s104	Arsenic	8/1/92	B08TJ5	1.6	3.14	mg/kg	S	PRIMARY RESULT	TCD	As	5.02E+03	
s104	Arsenic	8/1/92	B08TJ5		3.14	mg/kg	S	PRIMARY RESULT	TCD	As	5.02E+03	
s104	Arsenic	8/1/92	B08TJ5	1.6	3.13	mg/kg	S	DUPLICATE RESULT	TCD	As	5.01E+03	
s104	Arsenic	8/1/92	B08TJ5		3.13	mg/kg	S	DUPLICATE RESULT	TCD	As	5.01E+03	
s104	Arsenic	8/1/92	B08S48	1.6	3.1	mg/kg	S	DUPLICATE RESULT	TCD	As	4.96E+03	
s104	Arsenic	8/1/92	B08TJ4	1.6	3.1	mg/kg	S	DUPLICATE RESULT	TCD	As	4.96E+03	
s104	Arsenic	8/1/92	B08S48		3.1	mg/kg	S	DUPLICATE RESULT	TCD	As	4.96E+03	
s104	Arsenic	8/1/92	B08TJ4		3.1	mg/kg	S	DUPLICATE RESULT	TCD	As	4.96E+03	
s104	Arsenic	8/1/92	B08TJ4	1.6	3.1	mg/kg	S	PRIMARY RESULT	TCD	As	4.96E+03	
s104	Arsenic	8/1/92	B08TJ4		3.1	mg/kg	S	PRIMARY RESULT	TCD	As	4.96E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t111	Arsenic	11/1/91	B08SV7	1.09	4.55	ug/g	S	PRIMARY RESULT	TCD	As	4.96E+03	
t111	Arsenic	11/1/91	B08ST9	1.11	4.42	ug/g	S	DUPLICATE RESULT	TCD	As	4.91E+03	
T111	As	8/7/92	J-408	1.09	4.5	ugm/gm	G	Sludge	Braun	As	4.91E+03	
s104	Arsenic	8/1/92	B08TF7	1.6	3.06	mg/kg	S	DUPLICATE RESULT	TCD	As	4.90E+03	
s104	Arsenic	8/1/92	B08TJ5	1.6	3.06	mg/kg	S	DUPLICATE RESULT	TCD	As	4.90E+03	
s104	Arsenic	8/1/92	B08TF7		3.06	mg/kg	S	DUPLICATE RESULT	TCD	As	4.90E+03	
s104	Arsenic	8/1/92	B08TJ5		3.06	mg/kg	S	DUPLICATE RESULT	TCD	As	4.90E+03	
BX107	As	10/20/92	J924-AV		3.05695	ugm/gm	G	Sludge/Composite	Braun	As	4.89E+03	
BX107	As	10/20/92	J926-AV		3.05695	ugm/gm	G	Sludge/Composite	Braun	As	4.89E+03	
s104	Arsenic	8/1/92	B08TF6	1.6	3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08TF7	1.6	3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08TL3	1.6	3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08S48	1.6	3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08S48		3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08TF6		3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08TF7		3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
s104	Arsenic	8/1/92	B08TL3		3.05	mg/kg	S	PRIMARY RESULT	TCD	As	4.88E+03	
BX107	As	10/20/92	J927-AV		3.0478	ugm/gm	G	Sludge/Composite	Braun	As	4.88E+03	
s104	Arsenic	8/1/92	B08TJ5	1.6	3.04	mg/kg	S	PRIMARY RESULT	TCD	As	4.86E+03	
s104	Arsenic	8/1/92	B08TJ5		3.04	mg/kg	S	PRIMARY RESULT	TCD	As	4.86E+03	
s104	Arsenic	8/1/92	B08TF6	1.6	3.03	mg/kg	S	DUPLICATE RESULT	TCD	As	4.85E+03	
s104	Arsenic	8/1/92	B08TF6		3.03	mg/kg	S	DUPLICATE RESULT	TCD	As	4.85E+03	
BX107	As	10/20/92	J925-AV		3.025	ugm/gm	G	Sludge/Composite	Braun	As	4.84E+03	
s104	Arsenic	8/1/92	B08S48	1.6	3	mg/kg	S	DUPLICATE RESULT	TCD	As	4.80E+03	
s104	Arsenic	8/1/92	B08S48		3	mg/kg	S	DUPLICATE RESULT	TCD	As	4.80E+03	
s104	Arsenic	8/1/92	B08TJ4	1.6	2.99	mg/kg	S	PRIMARY RESULT	TCD	As	4.78E+03	
s104	Arsenic	8/1/92	B08TJ4		2.99	mg/kg	S	PRIMARY RESULT	TCD	As	4.78E+03	
s104	Arsenic	8/1/92	B08TL3	1.6	2.98	mg/kg	S	DUPLICATE RESULT	TCD	As	4.77E+03	
s104	Arsenic	8/1/92	B08TL3		2.98	mg/kg	S	DUPLICATE RESULT	TCD	As	4.77E+03	
s104	Arsenic	8/1/92	B08TF7	1.6	2.97	mg/kg	S	PRIMARY RESULT	TCD	As	4.75E+03	
s104	Arsenic	8/1/92	B08S50	1.6	2.97	mg/kg	S	PRIMARY RESULT	TCD	As	4.75E+03	
s104	Arsenic	8/1/92	B08S50		2.97	mg/kg	S	PRIMARY RESULT	TCD	As	4.75E+03	
s104	Arsenic	8/1/92	B08TF7		2.97	mg/kg	S	PRIMARY RESULT	TCD	As	4.75E+03	
s104	Arsenic	8/1/92	B08TJ4	1.6	2.96	mg/kg	S	DUPLICATE RESULT	TCD	As	4.74E+03	
s104	Arsenic	8/1/92	B08TJ4		2.96	mg/kg	S	DUPLICATE RESULT	TCD	As	4.74E+03	
t104	Arsenic	8/26/92	B08S09	1.13	4.19	mg/kg	S	PRIMARY RESULT	TCD	As	4.73E+03	
t107	Arsenic	3/1/93	B08VB9	1.19	3.95	ug/g	S	DUPLICATE RESULT	TCD	As	4.70E+03	
s104	Arsenic	8/1/92	B08TF6	1.6	2.9	mg/kg	S	DUPLICATE RESULT	TCD	As	4.64E+03	
s104	Arsenic	8/1/92	B08TF6		2.9	mg/kg	S	DUPLICATE RESULT	TCD	As	4.64E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analyses
Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
ASA Value: 1.22E+06 ug/L

Tank	Reported	Chemical	Date	Sample #	Density	Value Reported	Unit	Code	Sample State	Source	Analyte	ID
t107	Arsenic		3/1/93	B08V43	1.15	4.02	ug/g	S	DUPLICATE RESULT	TCD	As	4.62E+03
s104	Arsenic		8/1/92	B08TF7	1.6	2.87	mg/kg	S	DUPLICATE RESULT	TCD	As	4.59E+03
s104	Arsenic		8/1/92	B08TF6	1.6	2.87	mg/kg	S	PRIMARY RESULT	TCD	As	4.59E+03
s104	Arsenic		8/1/92	B08TF6		2.87	mg/kg	S	PRIMARY RESULT	TCD	As	4.59E+03
BX107	As		10/20/92	J926-AV		2.86	ugm/gm	G	Sludge/Composite	Braun	As	4.58E+03
s104	Arsenic		8/1/92	B08S48	1.6	2.84	mg/kg	S	PRIMARY RESULT	TCD	As	4.54E+03
s104	Arsenic		8/1/92	B08S48		2.84	mg/kg	S	PRIMARY RESULT	TCD	As	4.54E+03
s104	Arsenic		8/1/92	B08S50	1.6	2.82	mg/kg	S	DUPLICATE RESULT	TCD	As	4.51E+03
s104	Arsenic		8/1/92	B08S50		2.82	mg/kg	S	DUPLICATE RESULT	TCD	As	4.51E+03
BX107	As		10/20/92	J924-AV		2.8	ugm/gm	G	Sludge/Composite	Braun	As	4.48E+03
t111	Arsenic		11/1/91	B08ST9	1.11	4.02	ug/g	S	PRIMARY RESULT	TCD	As	4.46E+03
T111	As		8/7/92	J-404		4	ugm/gm	G	Sludge	Braun	As	4.44E+03
BX107	As		10/20/92	J927-AV		2.77	ugm/gm	G	Sludge/Composite	Braun	As	4.43E+03
t111	Arsenic		11/1/91	B08ST9	1.11	3.97	ug/g	S	PRIMARY RESULT	TCD	As	4.41E+03
T111	As		8/7/92	J-398	0.88	4.8	ugm/gm	G	Sludge	Braun	As	4.22E+03
t111	Arsenic		11/1/91	B08SX5	1.06	3.95	ug/g	S	DUPLICATE RESULT	TCD	As	4.19E+03
t111	Arsenic		11/1/91	B08ST5	0.88	4.84	ug/g	S	PRIMARY RESULT	TCD	As	4.14E+03
t107	Arsenic		3/1/93	B08VF0	1.38	3	ug/g	S	PRIMARY RESULT	TCD	As	4.13E+03
T111	As		8/7/92	J-410	1.06	3.9	ugm/gm	G	Sludge	Braun	As	4.13E+03
t107	Arsenic		3/1/93	B08VF0	1.38	2.98	ug/g	S	DUPLICATE RESULT	TCD	As	4.13E+03
t107	Arsenic		3/1/93	B08VF0	1.38	2.98	ug/g	S	DUPLICATE RESULT	TCD	As	4.13E+03
t107	Arsenic		3/1/93	B08VF0	1.38	2.98	ug/g	S	PRIMARY RESULT	TCD	As	4.11E+03
t107	Arsenic		3/1/93	B08VF0	1.38	2.96	ug/g	S	PRIMARY RESULT	TCD	As	4.08E+03
BX107	Arsenic		6/1/92	B08SF0	1.326	3.04	ug/g	S	PRIMARY RESULT	TCD	As	4.07E+03
t104	Arsenic		8/26/92	B08S09	1.13	3.56	mg/kg	S	PRIMARY RESULT	TCD	As	4.03E+03
t111	Arsenic		11/1/91	B08ST9	1.11	3.62	ug/g	S	DUPLICATE RESULT	TCD	As	4.02E+03
BX107	Arsenic		6/1/92	B08SF0	1.326	3.02	ug/g	S	DUPLICATE RESULT	TCD	As	4.01E+03
t111	Arsenic		11/1/91	B08ST7	0.93	4.27	ug/g	S	PRIMARY RESULT	TCD	As	3.97E+03
BX107	Arsenic		11/1/91	B08SV7	1.09	3.61	ug/g	S	DUPLICATE RESULT	TCD	As	3.93E+03
BX107	Arsenic		6/1/92	B08SF0	1.326	2.96	ug/g	S	DUPLICATE RESULT	TCD	As	3.93E+03
BX107	Arsenic		6/1/92	B08SF0	1.326	2.92	ug/g	S	PRIMARY RESULT	TCD	As	3.87E+03
t107	Arsenic		3/1/93	B08T22	1.29	3	ug/g	S	DUPLICATE RESULT	TCD	As	3.87E+03
t111	Arsenic		11/1/91	B08SX5	1.06	3.61	ug/g	S	DUPLICATE RESULT	TCD	As	3.83E+03
t107	Arsenic		3/1/93	B08T22	1.29	2.96	ug/g	S	PRIMARY RESULT	TCD	As	3.82E+03
t107	Arsenic		3/1/93	B08T22	1.29	2.92	ug/g	S	PRIMARY RESULT	TCD	As	3.77E+03
t107	Arsenic		3/1/93	B08T22	1.29	2.88	ug/g	S	DUPLICATE RESULT	TCD	As	3.72E+03

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t111	Arsenic	11/1/91	B08ST5	0.88	4.14	ug/g	S	PRIMARY RESULT	TCD	As	3.64E+03	
t111	Arsenic	11/1/91	B08SX5	1.06	3.41	ug/g	S	PRIMARY RESULT	TCD	As	3.61E+03	
t104	Arsenic	8/26/92	B08S09	1.13	3.07	mg/kg	S	DUPLICATE RESULT	TCD	As	3.47E+03	
t107	Arsenic	3/1/93	B08V43	1.15	2.99	ug/g	S	PRIMARY RESULT	TCD	As	3.44E+03	
t107	Arsenic	3/1/93	B08V43	1.15	2.95	ug/g	S	DUPLICATE RESULT	TCD	As	3.39E+03	
B110	Arsenic	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	DUPLICATE	B110 Core Data	As	3.28E+03	
t111	Arsenic	11/1/91	B08ST5	0.88	3.46	ug/g	S	DUPLICATE RESULT	TCD	As	3.04E+03	
t105	Arsenic	5/28/93	B08WT2	0.89	3.08	ug/g	S	DUPLICATE RESULT	TCD	As	2.74E+03	
t105	Arsenic	5/28/93	B08WT2	0.89	3.08	ug/g	S	PRIMARY RESULT	TCD	As	2.74E+03	
T111	As	8/7/92	J-402	0.93	2.9	ugm/gm	G	Sludge	Braun	As	2.70E+03	
t107	Arsenic	3/1/93	B08V43	1.15	2.3	ug/g	S	PRIMARY RESULT	TCD	As	2.65E+03	
C102	As	2/1/91	2		2.39	ug/mL	S	water leach	RAW	As	2.39E+03	
C102	As	2/1/91	2		2.39	ug/mL	S	water leach	RAW	As	2.39E+03	
C102	As	2/1/91	1		1.63	ug/mL	S	water leach	RAW	As	1.63E+03	
C102	As	2/1/91	1		1.63	ug/mL	S	water leach	RAW	As	1.63E+03	
s104	Arsenic	8/1/92	B08TL3	1.6	1.6	ug/mL	S	PRIMARY RESULT	TCD	As	1.60E+03	
s104	Arsenic	8/1/92	B08TL3		1.6	ug/mL	S	PRIMARY RESULT	TCD	As	1.60E+03	
U110	Arsenic	12/1/89	Core Composite 15	1.29	1.24	ug/g	I	DUPLICATE	U110 Core Data	As	1.60E+03	
U110	Arsenic	12/1/89	Core Composite 14	1.48	0.952	ug/g	I	DUPLICATE	U110 Core Data	As	1.41E+03	
U110	Arsenic	12/1/89	Core Composite 12	1.42	0.99	ug/g	I	DUPLICATE	U110 Core Data	As	1.41E+03	
U110	Arsenic	12/1/89	Core Composite 12	1.42	0.962	ug/g	I	PRIMARY	U110 Core Data	As	1.37E+03	
U110	Arsenic	12/1/89	Core Composite 13	1.3	1.05	ug/g	I	PRIMARY	U110 Core Data	As	1.37E+03	
U110	Arsenic	12/1/89	Core Composite 15	1.29	1.02	ug/g	I	PRIMARY	U110 Core Data	As	1.32E+03	
U110	Arsenic	12/1/89	Core Composite 13	1.3	0.996	ug/g	I	DUPLICATE	U110 Core Data	As	1.29E+03	
U110	Arsenic	12/1/89	Core Composite 14	1.48	0.82	ug/g	I	PRIMARY	U110 Core Data	As	1.21E+03	
U110	Arsenic	12/1/89	Core Composite 6	1.54	0.727	ug/g	I	PRIMARY	U110 Core Data	As	1.12E+03	
U110	Arsenic	12/1/89	Core Composite 6	1.54	0.697	ug/g	I	DUPLICATE	U110 Core Data	As	1.07E+03	
B202	As	12/31/91			0.00103	g/L	G	Sludge	Wastren	As	1.03E+03	
U110	Arsenic	12/1/89	Core Composite 6	1.54	0.66	ug/g	I	PRIMARY	U110 Core Data	As	1.02E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
U110	Arsenic	12/1/89	Core Composite 8		0.502	ug/g	I	DUPLICATE	U110 Core Data	As	8.03E+02	
U110	Arsenic	12/1/89	Core Composite 8		0.499	ug/g	I	PRIMARY	U110 Core Data	As	7.98E+02	
U110	Arsenic	12/1/89	Core Composite 8		0.488	ug/g	I	PRIMARY	U110 Core Data	As	7.81E+02	
U110	Arsenic	12/1/89	Core Composite 7	1.675	0.438	ug/g	I	DUPLICATE	U110 Core Data	As	7.34E+02	
U110	Arsenic	12/1/89	Core Composite 14	1.48	0.495	ug/g	I	DUPLICATE	U110 Core Data	As	7.33E+02	
U110	Arsenic	12/1/89	Core Composite 14	1.48	0.485	ug/g	I	PRIMARY	U110 Core Data	As	7.18E+02	
U110	Arsenic	12/1/89	Core Composite 12	1.42	0.499	ug/g	I	DUPLICATE	U110 Core Data	As	7.09E+02	
U110	Arsenic	12/1/89	Core Composite 12	1.42	0.494	ug/g	I	PRIMARY	U110 Core Data	As	7.01E+02	
U110	Arsenic	12/1/89	Core Composite 8		0.418	ug/g	I	DUPLICATE	U110 Core Data	As	6.69E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Single-Shell Tank Solids [Sketch ES-VAL-CC02]
 ASA Value: 1.22E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Arsenic	12/1/89	Core Composite 13	1.3	0.498	ug/g	I	DUPLICATE	U110 Core Data	As	6.47E+02	
U110	Arsenic	12/1/89	Core Composite 13	1.3	0.491	ug/g	I	PRIMARY	U110 Core Data	As	6.38E+02	
U110	Arsenic	12/1/89	Core Composite 7	1.675	0.338	ug/g	I	DUPLICATE	U110 Core Data	As	5.66E+02	
U110	Arsenic	12/1/89	Core Composite 5	1.04	0.54	ug/g	I	PRIMARY	U110 Core Data	As	5.62E+02	
U110	Arsenic	12/1/89	Core Composite 7	1.675	0.311	ug/g	I	PRIMARY	U110 Core Data	As	5.21E+02	
U110	Arsenic	12/1/89	Core Composite 5	1.04	0.48	ug/g	I	PRIMARY	U110 Core Data	As	4.99E+02	
U110	Arsenic	12/1/89	Core Composite 5	1.04	0.46	ug/g	I	DUPLICATE	U110 Core Data	As	4.78E+02	
U110	Arsenic	12/1/89	Core Composite 15	1.29	0.337	ug/g	I	DUPLICATE	U110 Core Data	As	4.35E+02	
U110	Arsenic	12/1/89	Core Composite 7	1.675	0.25	ug/g	I	PRIMARY	U110 Core Data	As	4.19E+02	
U110	Arsenic	12/1/89	Core Composite 5	1.04	0.37	ug/g	I	DUPLICATE	U110 Core Data	As	3.85E+02	
U110	Arsenic	12/1/89	Core Composite 6	1.54	0.19	ug/g	I	DUPLICATE	U110 Core Data	As	2.93E+02	
U110	Arsenic	12/1/89	Core Composite 15	1.29	0.145	ug/g	I	PRIMARY	U110 Core Data	As	1.87E+02	
s104	Arsenic	8/1/92	B08TL3	1.6	0.038	ug/mL	S	PRIMARY RESULT	TCD	As	3.80E+01	
s104	Arsenic	8/1/92	B08TL3		0.038	ug/mL	S	PRIMARY RESULT	TCD	As	3.80E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	Ba	4/1/90	RAT-C106-4A		350	ugm/gm	U	Unknown	Braun	Ba	3.85E+05	2
C105	Ba	4/1/90	RAT-C105-4A		150	ugm/gm	U	Unknown	Braun	Ba	1.65E+05	2
C102	Ba	4/1/90	RAT-C102-1		110	ugm/gm	U	Unknown	Braun	Ba	1.21E+05	2
ASA Value: 5.3E+04 ug/L												
BY102	Ba	6/3/91	R-8081	1.42	37	ppm	P	Supernatant	RAW	Ba	5.25E+04	*
BY102	Ba	6/3/91	R-8081	1.42	37	ppm	P	Supernate	Braun	Ba	5.25E+04	*
BY106	Ba	6/3/91	R-8083	1.46	32	ppm	P	Supernatant	RAW	Ba	4.67E+04	
BY106	Ba	6/3/91	R-8083	1.46	32	ppm	P	Supernate	Braun	Ba	4.67E+04	
BY105	Ba	6/3/91	R-8082	1.38	33	ppm	P	Supernatant	RAW	Ba	4.55E+04	
BY105	Ba	6/3/91	R-8082	1.38	33	ppm	P	Supernate	Braun	Ba	4.55E+04	
BY105	Ba	11/20/90	R-8082		41	PPM	P	Supernatant	RAW	Ba	4.51E+04	
BY109	Ba	6/3/91	R-8084	1.3	33	ppm	P	Supernatant	RAW	Ba	4.29E+04	
BY109	Ba	6/3/91	R-8084	1.3	33	ppm	P	Supernate	Braun	Ba	4.29E+04	
BY109	Ba	11/20/90	R8084	1.37	30	ppm	P	Supernatant	RAW	Ba	4.11E+04	
BY102	Ba	11/20/90	R-8081		37	PPM	P	Supernatant	RAW	Ba	4.07E+04	
BY105	Ba	6/3/91	R-8092	1.4	28	ppm	P	Supernatant	RAW	Ba	3.92E+04	
BY109	Ba	6/3/91	R-8094	1.4	28	ppm	P	Supernatant	RAW	Ba	3.92E+04	
BY105	Ba	6/3/91	R-8092	1.4	28	ppm	P	Supernate	Braun	Ba	3.92E+04	
BY109	Ba	6/3/91	R-8094	1.4	28	ppm	P	Supernate	Braun	Ba	3.92E+04	
BY102	Ba	6/3/91	R-8091	1.41	27	ppm	P	Supernatant	RAW	Ba	3.81E+04	
BY102	Ba	6/3/91	R-8091	1.41	27	ppm	P	Supernate	Braun	Ba	3.81E+04	
BY106	Ba	6/3/91	R-8093	1.47	25	ppm	P	Supernatant	RAW	Ba	3.68E+04	
BY106	Ba	6/3/91	R-8093	1.47	25	ppm	P	Supernate	Braun	Ba	3.68E+04	
BY106	Ba	11/20/90	R8083		28	ppm	P	Supernatant	RAW	Ba	3.08E+04	
BY102	Ba	6/3/91			0.0261	g/L	P	Supernate	Wastren	Ba	2.61E+04	
BY106	Ba	6/3/91			0.021	g/L	L	Drainable Liquid	Wastren	Ba	2.10E+04	
BY105	Ba	6/3/91			0.02	g/L	L	Drainable Liquid	Wastren	Ba	2.00E+04	
BY109	Ba	6/3/91			0.02	g/L	P	Supernate	Wastren	Ba	2.00E+04	
AX102	Ba	11/14/88	RAT-AX102-3		0.0001	moles/l	P	Supernate	Braun	Ba	1.37E+04	
AX102	Ba	11/14/88			0.0137	g/L	P	Supernate	Wastren	Ba	1.37E+04	
A103	Ba	4/3/86			0.01	g/L	L	Drainable Liquid	Wastren	Ba	1.00E+04	
A106	Ba	3/13/86			0.01	g/L	L	Drainable Liquid	Wastren	Ba	1.00E+04	
A106	Ba	3/11/86	A1XDOOXX	1.35	10	mg/l	L	Liquor	Braun	Ba	1.00E+04	
A106	Ba	3/13/86	A2XDOOXX	1.36	10	mg/l	L	Liquor	Braun	Ba	1.00E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX107	Ba	3/16/90			0.00897	g/L	P	Supernate	Wastren	Ba	8.97E+03	
BX107	Ba	3/16/90	R6038	1.22	0.0000653	M	P	Supernatant	RAW	Ba	8.97E+03	
BX107	Ba	3/16/90	R-6038	1.22	0.0000653	moles/l	P	Supernate	Braun	Ba	8.97E+03	
C103	Barium	5/19/87	F2XDXXXX		5.12	mg/L	L	Drainable Liquor	RAW	Ba	5.12E+03	
C103	Barium	5/19/87	F2XDXXXX		5.12	mg/L	L	Drainable Liquor	RAW	Ba	5.12E+03	
C103	Ba	5/14/86	F2XDOOXX	1.08	5.12	mg/l	L	Liquor	Braun	Ba	5.12E+03	
C105	Barium	5/19/87	C1XDXXXX		2.66	mg/L	L	Drainable Liquor	RAW	Ba	2.66E+03	
C105	Barium	5/19/87	C1XDXXXX		2.66	mg/L	L	Drainable Liquor	RAW	Ba	2.66E+03	
C105	Ba	4/11/86	C1XD00XX	1.23	2.66	mg/l	L	Liquor	Braun	Ba	2.66E+03	
C103	Barium	5/19/87	F1XDXXXX		2.17	mg/L	L	Drainable Liquor	RAW	Ba	2.17E+03	
C103	Barium	5/19/87	F1XDXXXX		2.17	mg/L	L	Drainable Liquor	RAW	Ba	2.17E+03	
C103	Ba	5/7/86	F1XD00XX	1.11	2.17	mg/l	L	Liquor	Braun	Ba	2.17E+03	
t104	Barium	8/26/92	B08TQ7	1.1	2.08	ug/mL	L	PRIMARY RESULT	TCD	Ba	2.08E+03	
c112	Barium	3/1/92	B08DZ5	1.4	1.4	ug/g	L	DUPLICATE RESULT	TCD	Ba	1.96E+03	
BY103	Ba	6/3/91	R-8088	1.45	1	ppm	P	Supernatant	RAW	Ba	1.45E+03	
BY103	Ba	6/3/91	R-8088	1.45	1	ppm	P	Supernate	Braun	Ba	1.45E+03	
BY103	Ba	11/14/90			1	ppm	P	Supernatant	RAW	Ba	1.10E+03	
BX105	Ba	3/4/86			0.000874	g/L	P	Supernate	Wastren	Ba	8.74E+02	
BX105	Barium	5/19/87	B2XDXXXX		0.874	mg/L	L	Drainable Liquor	RAW	Ba	8.74E+02	
BX105	Barium	5/19/87	B2XDXXXX		0.874	mg/L	L	Drainable Liquor	RAW	Ba	8.74E+02	
BX105	Ba	3/4/86	82XDOOXX	1.29	0.874	mg/l	L	Liquor	Braun	Ba	8.74E+02	
BX105	Barium	5/19/87	B1XDXXXX		0.6911	mg/L	L	Drainable Liquor	RAW	Ba	6.91E+02	
BX105	Barium	5/19/87	B1XDXXXX		0.6911	mg/L	L	Drainable Liquor	RAW	Ba	6.91E+02	
BX105	Ba	3/3/86	81XD00XX	1.29	0.6911	mg/l	L	Liquor	Braun	Ba	6.91E+02	
BY103	Ba	6/3/91			0.00069	g/L	L	Drainable Liquid	Wastren	Ba	6.90E+02	
A102	Barium	5/19/87	91XDXXXX		0.584	mg/L	L	Drainable Liquor	RAW	Ba	5.84E+02	
A102	Barium	5/19/87	91XDXXXX		0.584	mg/L	L	Drainable Liquor	RAW	Ba	5.84E+02	
A102	Ba	3/6/86	91XD00XX	1.52	0.584	mg/l	L	Liquor	Braun	Ba	5.84E+02	
BX104	Ba	2/26/86			0.00055	g/L	L	Drainable Liquid	Wastren	Ba	5.50E+02	
A102	Ba	3/8/86	92XD00XX	1.51	0.55	mg/l	L	Liquor	Braun	Ba	5.50E+02	
c110	Barium	4/23/92	B08VM5	1	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VM5	1	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.303	ug/mL	L	DUPLICATE RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VM5	1	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VM5	1	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.303	ug/mL	L	PRIMARY RESULT	TCD	Ba	3.03E+02	
TY104	Ba	8/12/85			0.0002	g/L	P	Supernate	Wastren	Ba	2.00E+02	
TY104	Ba	8/6/85	232DXXXX	1.21	0.2	mg/L	L	Drainable Liquor	RAW	Ba	2.00E+02	
TY104	Barium	9/30/85	232DXXXX		0.2	mg/L	L	Drainable Liquor	RAW	Ba	2.00E+02	
TY104	Barium	9/30/85	232DXXXX		0.2	mg/L	L	Drainable Liquor	RAW	Ba	2.00E+02	
TY104	Ba	8/12/85	232D0000	1.21	0.2	mg/l	L	Liquor	Braun	Ba	2.00E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.153	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.153	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VP9	1.1	0.153	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.153	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.53E+02	
c110	Barium	4/23/92	B08VH6	1.18	0.153	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.53E+02	
C110	Ba	11/1/91	1	1.1	0.153	ug/ml	L	core 38 seg. 4	RAW	Ba	1.53E+02	
C110	Ba	11/1/91	2	1.1	0.153	ug/ml	L	core 38 seg. 4	RAW	Ba	1.53E+02	
C110	Ba	11/1/91	1	1.18	0.153	ug/ml	L	core 39 seg. 3	RAW	Ba	1.53E+02	
C110	Ba	11/1/91	2	1.18	0.153	ug/ml	L	core 39 seg. 3	RAW	Ba	1.53E+02	
c110	Barium	4/23/92	B08VM5	1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.50E+02	
c110	Barium	4/23/92	B08VM5	1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Ba	1.50E+02	
c110	Barium	4/23/92	B08VM5	1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.50E+02	
c110	Barium	4/23/92	B08VM5	1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Ba	1.50E+02	
C110	Ba	11/1/91	1	1	0.15	ug/ml	L	core 37 seg. 3	RAW	Ba	1.50E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C110	Ba	11/1/91	2	1	0.15	ug/ml	L	core 37 seg. 3	RAW	Ba	1.50E+02	
TY104	Ba	8/6/85	211DXXXX	1.16	0.139	mg/L	L	Drainable Liquor	RAW	Ba	1.39E+02	
TY104	Barium	9/30/85	211DXXXX		0.139	mg/L	L	Drainable Liquor	RAW	Ba	1.39E+02	
TY104	Barium	9/30/85	211DXXXX		0.139	mg/L	L	Drainable Liquor	RAW	Ba	1.39E+02	
TY104	Ba	8/6/85	211D0000	1.16	0.139	mg/l	L	Liquor	Braun	Ba	1.39E+02	
TY104	Ba	8/6/85	241DXXXX	1.18	0.13	mg/L	L	Drainable Liquor	RAW	Ba	1.30E+02	
TY104	Barium	9/30/85	241DXXXX		0.13	mg/L	L	Drainable Liquor	RAW	Ba	1.30E+02	
TY104	Barium	9/30/85	241DXXXX		0.13	mg/L	L	Drainable Liquor	RAW	Ba	1.30E+02	
TY104	Ba	8/6/85	241D0000	1.18	0.13	mg/l	L	Liquor	Braun	Ba	1.30E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
U110	Ba				0.0316	g-moles	L		TRAC	Ba	3.11E+01	
U109	Ba				0.115	g-moles	L		TRAC	Ba	9.16E+00	
A103	Ba				0.0922	g-moles	L		TRAC	Ba	6.58E+00	
TX106	Ba				0.0785	g-moles	L		TRAC	Ba	6.31E+00	
C106	Ba	4/14/87		1.22	5	uG/L	L		RAW	Ba	5.00E+00	
BX108	Ba				0.00215	g-moles	L		TRAC	Ba	3.66E+00	
TX102	Ba				0.0286	g-moles	L		TRAC	Ba	3.24E+00	
C105	Ba	5/19/87		1.23	2.66	ug/l	L		RAW	Ba	2.66E+00	
B202	Ba				0.00186	g-moles	L		TRAC	Ba	2.55E+00	
C107	Ba				0.0183	g-moles	L		TRAC	Ba	2.20E+00	
U111	Ba				0.00798	g-moles	L		TRAC	Ba	2.19E+00	
C112	Ba				0.00505	g-moles	L		TRAC	Ba	1.86E+00	
U107	Ba				0.018	g-moles	L		TRAC	Ba	1.67E+00	
C111	Ba				0.00217	g-moles	L		TRAC	Ba	1.44E+00	
T103	Ba				0.000827	g-moles	L		TRAC	Ba	1.29E+00	
C201	Ba				0.000114	g-moles	L		TRAC	Ba	1.03E+00	
TX105	Ba				0.0151	g-moles	L		TRAC	Ba	9.63E-01	
AX103	Ba				0.00312	g-moles	L		TRAC	Ba	9.34E-01	
T108	Ba				0.000998	g-moles	L		TRAC	Ba	8.45E-01	
T102	Ba				0.000328	g-moles	L		TRAC	Ba	7.92E-01	
C109	Ba				0.00122	g-moles	L		TRAC	Ba	7.57E-01	
S105	Ba				0.00701	g-moles	L		TRAC	Ba	7.51E-01	
S106	Ba				0.0115	g-moles	L		TRAC	Ba	7.38E-01	
SX106	Ba				0.00969	g-moles	L		TRAC	Ba	7.36E-01	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
TY104	Ba				0.000842	g-moles	L		TRAC	Ba	6.69E-01	
TX103	Ba				0.00363	g-moles	L		TRAC	Ba	6.45E-01	
B109	Ba				0.000914	g-moles	L		TRAC	Ba	5.04E-01	
S108	Ba				0.00758	g-moles	L		TRAC	Ba	4.56E-01	
C108	Ba				0.0000607	g-moles	L		TRAC	Ba	4.28E-01	
B106	Ba				0.0009	g-moles	L		TRAC	Ba	4.01E-01	
S104	Ba				0.000424	g-moles	L		TRAC	Ba	3.32E-01	
B107	Ba				0.00139	g-moles	L		TRAC	Ba	3.13E-01	
A105	Ba				0.00015	g-moles	L		TRAC	Ba	2.99E-01	
TX117	Ba				0.00305	g-moles	L		TRAC	Ba	2.98E-01	
T104	Ba				0.00373	g-moles	L		TRAC	Ba	2.88E-01	
BX112	Ba				0.00102	g-moles	L		TRAC	Ba	2.72E-01	
BX109	Ba				0.0015	g-moles	L		TRAC	Ba	2.70E-01	
S101	Ba				0.0017	g-moles	L		TRAC	Ba	2.69E-01	
SX104	Ba				0.00249	g-moles	L		TRAC	Ba	2.62E-01	
SX105	Ba				0.00429	g-moles	L		TRAC	Ba	2.60E-01	
U102	Ba				0.00262	g-moles	L		TRAC	Ba	2.51E-01	
S110	Ba				0.0043	g-moles	L		TRAC	Ba	2.50E-01	
S111	Ba				0.00394	g-moles	L		TRAC	Ba	2.45E-01	
U108	Ba				0.00195	g-moles	L		TRAC	Ba	2.10E-01	
B103	Ba				0.000486	g-moles	L		TRAC	Ba	1.97E-01	
B102	Ba				0.000236	g-moles	L		TRAC	Ba	1.79E-01	
BY107	Ba				0.00151	g-moles	L		TRAC	Ba	1.76E-01	
TX115	Ba				0.00262	g-moles	L		TRAC	Ba	1.53E-01	
BY105	Ba				0.00239	g-moles	L		TRAC	Ba	1.51E-01	
C204	Ba				0.0000121	g-moles	L		TRAC	Ba	1.46E-01	
BY112	Ba				0.000521	g-moles	L		TRAC	Ba	1.45E-01	
BY108	Ba				0.00138	g-moles	L		TRAC	Ba	1.45E-01	
TY101	Ba				0.000393	g-moles	L		TRAC	Ba	1.36E-01	
BY111	Ba				0.00214	g-moles	L		TRAC	Ba	1.26E-01	
BY106	Ba				0.00205	g-moles	L		TRAC	Ba	1.24E-01	
TX116	Ba				0.00129	g-moles	L		TRAC	Ba	1.24E-01	
BY104	Ba				0.00188	g-moles	L		TRAC	Ba	1.18E-01	
T101	Ba				0.000423	g-moles	L		TRAC	Ba	1.18E-01	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
T109	Ba				0.000474	g-moles	L		TRAC	Ba	1.17E-01	
BY110	Ba				0.00162	g-moles	L		TRAC	Ba	1.17E-01	
BX107	Ba				0.00112	g-moles	L		TRAC	Ba	1.10E-01	
TX113	Ba				0.00144	g-moles	L		TRAC	Ba	9.42E-02	
B108	Ba				8.46E-06	g-moles	L		TRAC	Ba	9.26E-02	
B104	Ba				0.000236	g-moles	L		TRAC	Ba	8.47E-02	
TY105	Ba				0.00063	g-moles	L		TRAC	Ba	8.15E-02	
U105	Ba				0.00091	g-moles	L		TRAC	Ba	8.12E-02	
U103	Ba				0.000721	g-moles	L		TRAC	Ba	7.73E-02	
BY109	Ba				0.000168	g-moles	L		TRAC	Ba	7.52E-02	
BX111	Ba				0.00038	g-moles	L		TRAC	Ba	7.44E-02	
BX110	Ba				0.000282	g-moles	L		TRAC	Ba	7.15E-02	
BY101	Ba				0.000666	g-moles	L		TRAC	Ba	7.12E-02	
TX114	Ba				0.00105	g-moles	L		TRAC	Ba	5.94E-02	
C101	Ba				0.0000117	g-moles	L		TRAC	Ba	5.74E-02	
TX108	Ba				0.0000912	g-moles	L		TRAC	Ba	5.17E-02	
TX112	Ba				0.000861	g-moles	L		TRAC	Ba	4.67E-02	
TX111	Ba				0.000473	g-moles	L		TRAC	Ba	4.36E-02	
TX110	Ba				0.000531	g-moles	L		TRAC	Ba	3.73E-02	
B105	Ba				0.000181	g-moles	L		TRAC	Ba	3.38E-02	
TY103	Ba				0.000134	g-moles	L		TRAC	Ba	3.22E-02	
TX109	Ba				0.0002	g-moles	L		TRAC	Ba	1.81E-02	
TY102	Ba				0.0000256	g-moles	L		TRAC	Ba	1.47E-02	
TX107	Ba				9.02E-08	g-moles	L		TRAC	Ba	8.17E-05	
TY106	Ba				1.17E-08	g-moles	L		TRAC	Ba	2.99E-05	
U104	Ba				3.39E-08	g-moles	L		TRAC	Ba	9.83E-06	
TX104	Ba				7.99E-09	g-moles	L		TRAC	Ba	4.26E-06	
C203	Ba				5.2E-10	g-moles	L		TRAC	Ba	2.10E-06	
C102	Ba				6.66E-09	g-moles	L		TRAC	Ba	9.25E-07	
U106	Ba				3.51E-09	g-moles	L		TRAC	Ba	5.60E-07	
A106	Ba				5.14E-10	g-moles	L		TRAC	Ba	1.76E-07	
S102	Ba				1.35E-09	g-moles	L		TRAC	Ba	1.32E-07	
S107	Ba				2.57E-10	g-moles	L		TRAC	Ba	9.04E-08	
C104	Ba				3.45E-10	g-moles	L		TRAC	Ba	6.68E-08	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Liquids [Sketch ES-VAL-CC03]
 ASA Value: 5.3E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SX101	Ba				5.52E-11	g-moles	L		TRAC	Ba	1.27E-08	
C110	Ba				3.89E-11	g-moles	L		TRAC	Ba	6.81E-09	
AX101	Ba				1.03E-11	g-moles	L		TRAC	Ba	4.92E-10	
C202	Ba				4.02E-17	g-moles	L		TRAC	Ba	1.88E-12	
AX102	Ba				9.34E-18	g-moles	L		TRAC	Ba	6.37E-15	
T107	Ba				1.73E-17	g-moles	L		TRAC	Ba	3.64E-15	
BX101	Ba				2.12E-19	g-moles	L		TRAC	Ba	2.75E-16	
B101	Ba				3.41E-30	g-moles	L		TRAC	Ba	1.32E-27	
A101	Ba				1.85E-39	g-moles	L		TRAC	Ba	1.02E-37	

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4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B203	Ba	1/7/83			51.1	g/L	G	Sludge	Wastren	Ba	5.11E+07	15
B203	Ba	1/7/83	RAT-B203-1		2.92	wt. %	G	Sludge	Braun	Ba	4.67E+07	15
ASA Value: 3.98E+07 ug/L												
C107	Ba	9/26/77	T-510-28		0.29	moles/l	G	Sludge	Braun	Ba	3.98E+07	*
S104	Ba	1/9/76	RAT-S104-2	1.21	0.09	moles/l	G	Sludge	Braun	Ba	1.24E+07	
C106	Ba	5/19/86			4890	ug/g	I	Composite	RAW	Ba	7.82E+06	
C106	Ba	4/1/87	3		4890	mg/kg	S		RAW	Ba	7.82E+06	
C103	Ba	5/14/86	F2XCOOXX	1.54	5010	ugm/gm	G	Sludge/Composite	Braun	Ba	7.72E+06	
C103	Ba	5/8/87	F1XCXXXX	1.54	5010	ug/g	I	Composite	RAW	Ba	7.72E+06	
C107	Ba	8/2/77	T-8110-14		0.054	moles/l	G	Sludge	Braun	Ba	7.42E+06	
C107	Ba	8/2/77			0.054	M	S	Solids	RAW	Ba	7.42E+06	
C107	Ba	8/2/77	T-8110-13		0.053	moles/l	G	Sludge	Braun	Ba	7.28E+06	
BX105	Barium	3/4/86	82XCOOXX	1.79	3950	ugm/gm	G	Sludge/Composite	Braun	Ba	7.07E+06	
BX105	Ba	1/5/88	82xcxxxxR-8	1.79	3950	ug/g	I	Composite	RAW	Ba	7.07E+06	
BX105	Ba	3/4/86			7.07	g/L	G	Sludge	Wastren	Ba	7.07E+06	
C106	Ba	5/19/86	G1XCOOXX	1.43	4890	ugm/gm	G	Sludge/Composite	Braun	Ba	6.99E+06	
C106	Ba	4/17/87	G1xcxxxxR-1	1.43	4890	ug/g	I	Composite	RAW	Ba	6.99E+06	
C106	Ba	4/14/87		1.43	4890	ug/g	S		RAW	Ba	6.99E+06	
B101	Ba	1/5/76			6.87	g/L	G	Sludge	Wastren	Ba	6.87E+06	
B101	Ba	1/5/76	RAT-B101-1	1.59	0.05	moles/l	G	Sludge	Braun	Ba	6.87E+06	
C107	Ba	8/2/77			0.05	M	S	Solids	RAW	Ba	6.87E+06	
C107	Ba	8/2/77	T-8110-11		0.048	moles/l	G	Sludge	Braun	Ba	6.59E+06	
C103	Ba	5/7/86	F1XCOOXX	1.13	4920	ugm/gm	G	Sludge/Composite	Braun	Ba	5.56E+06	
C103	Ba	5/8/87	F1XCXXXX	1.13	4920	ug/g	I	Composite	RAW	Ba	5.56E+06	
C104	Ba	4/15/86			4.72	g/L	G	Sludge	Wastren	Ba	4.72E+06	
C104	Ba	4/15/86	D1XCOOXX	1.21	3900	ugm/gm	G	Sludge/Composite	Braun	Ba	4.72E+06	
U105	Ba	3/9/76	RAT-U105-1	1.52	0.03	moles/l	G	Sludge	Braun	Ba	4.12E+06	
U105	Ba	3/9/76		1.52	0.03	mol/l	G	Sludge	RAW	Ba	4.12E+06	
C105	Ba	4/11/86	C1XCOOXX	1.55	2560	ugm/gm	G	Sludge/Composite	Braun	Ba	3.97E+06	
C105	Ba	5/8/87		1.55	2560	ug/g	I	Composite	RAW	Ba	3.97E+06	
BX105	Barium	3/3/86	81XCOOXX	1.58	2440	ugm/gm	G	Sludge/Composite	Braun	Ba	3.86E+06	
BX105	Ba	1/5/88	81xcxxxxR-4	1.58	2440	ug/g	I	Composite	RAW	Ba	3.86E+06	
b202	Barium	6/7/91	B08SP8	0.98	3790	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.71E+06	
AX103	Ba	9/19/74	RAT-AX103-1		0.027	moles/l	G	Sludge	Braun	Ba	3.71E+06	
U103	Ba	8/15/77	8793		0.027	moles/l	A	Salts	Braun	Ba	3.71E+06	
U103	Ba	8/15/77			0.027	M	A	Salt	RAW	Ba	3.71E+06	
AX103	Ba	9/19/74			0.027	M/L	G	Sludge	RAW	Ba	3.71E+06	
BX104	Ba	1/5/88	72xcxxxxR-8	1.76	2090	ug/g	I	Composite	RAW	Ba	3.68E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
A106	Ba	3/13/86			3.62	g/L	G	Sludge	Wastren	Ba	3.62E+06
A106	Barium	3/13/86	A2XC00XX	1.54	2350	ugm/gm	G	Sludge/Composite	Braun	Ba	3.62E+06
A106	Ba	1/5/88	A2xcxxxx R-20	1.54	2350	ug/g	I	Composite Composite	RAW	Ba	3.62E+06
C106	Ba	7/1/77	5		2246	mg/kg	S		RAW	Ba	3.59E+06
BX104	Ba	2/26/86			3.5	g/L	G	Sludge	Wastren	Ba	3.50E+06
BX104	Barium	2/26/86	72XC00XX	1.673	2090	ugm/gm	G	Sludge/Composite	Braun	Ba	3.50E+06
A106	Ba	10/5/77	JS-30	1.51	0.023	moles/l	G	Sludge	Braun	Ba	3.16E+06
TY101	Ba	9/11/85			3.15	g/L	G	Sludge	Wastren	Ba	3.15E+06
TY101	Ba	9/11/85	51XC0000	1.64	1920	ugm/gm	G	Sludge/Composite	Braun	Ba	3.15E+06
TY101	Ba	9/1/85		1.64	1920	ug/g	I	core composite	RAW	Ba	3.15E+06
A106	Barium	3/11/86	A1XC00XX	1.56	1950	ugm/gm	G	Sludge/Composite	Braun	Ba	3.04E+06
A106	Ba	1/5/88	A1xcxxxx R-17	1.56	1950	ug/g	I	Composite Composite	RAW	Ba	3.04E+06
A106	Ba	10/5/77	JS-31	1.51	0.022	moles/l	G	Sludge	Braun	Ba	3.02E+06
AX104	Ba	9/15/77	48-JS, 22&24 AL#230	3.8	0.022	M	G	Sludge	RAW	Ba	3.02E+06
b202	Barium	6/7/91	B08SM4	1.35	2060	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.78E+06
b202	Barium	6/7/91	B08SM4	1.35	2050	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.77E+06
U107	Ba	12/9/74			2.75	g/L	G	Sludge	Wastren	Ba	2.75E+06
AX104	Ba	9/15/77			2.75	g/L	G	Sludge	Wastren	Ba	2.75E+06
AX104	Ba	9/15/77	JS-25		0.02	moles/l	G	Sludge	Braun	Ba	2.75E+06
U107	Ba	12/9/74	RAT-U107-1	1.14	0.02	moles/l	G	Sludge	Braun	Ba	2.75E+06
U107	Ba	12/9/74		1.14	0.02	mol/l	G	Sludge	RAW	Ba	2.75E+06
AX104	Ba	9/15/77	148JS#25 AL#2385		0.02	M	S		RAW	Ba	2.75E+06
b202	Barium	6/7/91	B08SM4	1.35	2000	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.70E+06
b202	Barium	6/7/91	B08SM4	1.35	1990	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.69E+06
b202	Barium	6/7/91	B08SM4	1.35	1989.56	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.69E+06
b202	Barium	6/7/91	B08SP8	0.98	2680	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.63E+06
b202	Barium	6/7/91	B08SM4	1.35	1730.02	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.34E+06
BX104	Barium	2/14/86	71XC00XX	1.85	1210	ugm/gm	G	Sludge/Composite	Braun	Ba	2.24E+06
BX104	Ba	1/5/88	71xcxxxxR-1	1.85	1210	ug/g	I	Composite	RAW	Ba	2.24E+06
b202	Barium	6/7/91	B08SM2	1.02	2190	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.23E+06
b202	Barium	6/7/91	B0BC06	0.99	1989.56	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.97E+06
b202	Barium	6/7/91	B08SK0	0.93	2090	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.94E+06
C107	Ba	9/26/77	T-510-33		0.014	moles/l	G	Sludge	Braun	Ba	1.92E+06
C107	Ba	9/26/77	510 Top		0.014	M	S		RAW	Ba	1.92E+06
b202	Barium	6/7/91	B08SK0	0.93	2062.84	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.92E+06
b202	Barium	6/7/91	B08SK0	0.93	2040	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.90E+06
b202	Barium	6/7/91	B08SP8	0.98	1910	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.87E+06
b202	Barium	6/7/91	B08SP8	0.98	1851.81	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.81E+06

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
b202	Barium	6/7/91	B08SP8	0.98	1850	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.81E+06	
b202	Barium	6/7/91	B08SP8	0.98	1841.02	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.80E+06	
b202	Barium	6/7/91	B08SK0	0.93	1910	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.78E+06	
C102	Ba	12/1/86	RAT-C102-2		1100	ugm/gm	I	Composite	Braun	Ba	1.76E+06	
C102	Ba	6/17/87			1100	uG/G	S	Acid/PARR	RAW	Ba	1.76E+06	
TY106	Ba	7/31/85	111CO000	1.31	1330	ugm/gm	G	Sludge/Composite	Braun	Ba	1.74E+06	
b202	Barium	6/7/91	B0BC06	0.99	1730.02	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.71E+06	
A102	Ba	3/8/86	92XCOOXX	1.66	1030	ugm/gm	G	Sludge/Composite	Braun	Ba	1.71E+06	
A102	Ba	1/5/88	92xcooxx R-4	1.66	1030	ug/g	I	Composite Composite	RAW	Ba	1.71E+06	
b202	Barium	6/7/91	B08SK0	0.93	1831.68	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.70E+06	
b202	Barium	6/7/91	B08SK0	0.93	1830	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.70E+06	
SX102	Ba	8/19/77	9002 JS#15		0.011	M	S	Unknown	RAW	Ba	1.51E+06	
SX102	Ba	8/19/77	8992		0.011	moles/l	S	Unknown	Braun	Ba	1.51E+06	
AX102	Ba	9/25/74	RAT-AX102-2	1.57	0.011	moles/l	G	Sludge	Braun	Ba	1.51E+06	
AX102	Ba	9/25/74		1.57	0.011	M/L	G	Sludge, soft	RAW	Ba	1.51E+06	
C102	Ba	7/10/86	E1XCOOXX	1.351	1100	ugm/gm	G	Sludge/Composite	Braun	Ba	1.49E+06	
b202	Barium	6/7/91	B08SP6	0.98	1489.09	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.46E+06	
AX101	Ba	7/14/75	RAT-AX101-1	1.3	0.01	moles/l	G	Sludge	Braun	Ba	1.37E+06	
BX101	Ba	1/26/76	RAT-BX101-1	1.68	0.01	moles/l	G	Sludge	Braun	Ba	1.37E+06	
C110	Ba	8/31/77	T-9501-17		0.01	moles/l	G	Sludge	Braun	Ba	1.37E+06	
SX104	Ba	6/19/74	RAT-SX104-1	1.62	0.01	moles/l	G	Sludge	Braun	Ba	1.37E+06	
SX104	Ba	6/19/74		1.62	0.01	mol/l	G	Sludge(Bottom Layer)	RAW	Ba	1.37E+06	
SX104	Ba	6/19/77		1.62	0.01	M	S	Hard Chunk	RAW	Ba	1.37E+06	
C110	Ba	6/10/77	9501		0.01	M	G	Sludge	RAW	Ba	1.37E+06	
BX101	Ba	1/26/76		1.68	0.01	M	G	Sludge	RAW	Ba	1.37E+06	
BX101	Ba	1/26/76			1.37	g/L	G	Sludge	Wastren	Ba	1.37E+06	
b202	Barium	6/7/91	B08SP6	0.98	1380	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.35E+06	
b202	Barium	6/7/91	B08SP6	0.98	1376.63	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.35E+06	
A104	Ba	9/4/74			1.24	g/L	G	Sludge	Wastren	Ba	1.24E+06	
A104	Ba	9/4/74	RAT-A104-1	1.64	0.009	moles/l	G	Sludge	Braun	Ba	1.24E+06	
A104	Ba	9/4/74		1.64	0.009	M	G	Sludge	RAW	Ba	1.24E+06	
A102	Ba	3/6/86	91XCOOXX	1.52	730	ugm/gm	G	Sludge/Composite	Braun	Ba	1.11E+06	
A102	Ba	2/24/87	91xcooxx R-4	1.52	730	ug/g	I	Composite Composite	RAW	Ba	1.11E+06	
A102	Ba	3/6/86	91XCOOXX	1.52	728	ugm/gm	G	Sludge/Composite	Braun	Ba	1.11E+06	
AX104	Ba				182	g-moles	S		TRAC	Ba	1.02E+06	
TY104	Ba	8/14/85	251SO000	1.66	615	ugm/gm	G	Sludge/Composite	Braun	Ba	1.02E+06	
TY104	Ba	8/6/85	251SXXXX	1.66	615	ug/g	I	core composite	RAW	Ba	1.02E+06	
TY103	Ba	8/21/85	31XCO000	1.7	579	ugm/gm	G	Sludge/Composite	Braun	Ba	9.84E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TY103	Ba	9/1/85	31XCXXXX	1.7	579	ug/g	I	Core composite	RAW	Ba	9.84E+05	
b202	Barium	6/7/91	B08SP6	0.98	998	mg/kg	S	PRIMARY RESULT	TCD	Ba	9.78E+05	
AX101	Ba				105	g-moles	S		TRAC	Ba	9.51E+05	
b202	Barium	6/7/91	B08SM2	1.02	905	mg/kg	S	PRIMARY RESULT	TCD	Ba	9.23E+05	
TY104	Ba	8/6/85	241S0000	1.77	505	ugm/gm	G	Sludge/Composite	Braun	Ba	8.94E+05	
TY104	Ba	8/6/85	241SXXXX	1.77	505	ug/g	I	core composite	RAW	Ba	8.94E+05	
b202	Barium	6/7/91	B08SM2	1.02	854	mg/kg	S	PRIMARY RESULT	TCD	Ba	8.71E+05	
TY103	Ba	8/21/85	32XC0000	1.7	501	ugm/gm	G	Sludge/Composite	Braun	Ba	8.52E+05	
TY103	Ba	9/1/85	32XCXXXX	1.7	501	ug/g	I	Core composite	RAW	Ba	8.52E+05	
A103	Barium	4/3/86	B2XC00XX	1.35	613	ugm/gm	G	Sludge/Composite	Braun	Ba	8.28E+05	
A103	Ba	3/3/87	B2xcxxxx R-12	1.35	613	ug/g	I	Composite Composite	RAW	Ba	8.28E+05	
A103	Barium	4/3/86	B2XC00XX	1.35	609	ugm/gm	G	Sludge/Composite	Braun	Ba	8.22E+05	
A103	Ba	4/3/86			0.822	g/L	K	Saltcake	Wastren	Ba	8.22E+05	
b202	Barium	6/7/91	B08SP6	0.98	803	mg/kg	S	PRIMARY RESULT	TCD	Ba	7.87E+05	
b202	Barium	6/7/91	B08SP6	0.98	788	mg/kg	S	PRIMARY RESULT	TCD	Ba	7.72E+05	
b202	Barium	6/7/91	B08SM2	1.02	718	mg/kg	S	PRIMARY RESULT	TCD	Ba	7.32E+05	
U110	Barium	12/1/89	Core 5 Segment 3	1.04	693	ug/g	I	DUPLICATE	U110 Core Data	Ba	7.21E+05	
A103	Barium	3/26/86	B1XC00XX	1.34	537	ugm/gm	G	Sludge/Composite	Braun	Ba	7.20E+05	
A103	Ba	2/24/87	B1xc00xx R-17	1.34	537	ug/g	I	Composite Composite	RAW	Ba	7.20E+05	
A103	Barium	3/26/86	B1XC00XX	1.34	533	ugm/gm	G	Sludge/Composite	Braun	Ba	7.14E+05	
TY103	Ba	8/21/85			0.706	g/L	G	Sludge	Wastren	Ba	7.06E+05	
t111	Barium	11/1/91	B08SQ9	1.13	571	ug/g	S	PRIMARY RESULT	TCD	Ba	6.45E+05	
T111	Ba	8/7/92	J-414	1.13	571	ugm/gm	G	Sludge	Braun	Ba	6.45E+05	
t111	Barium	11/1/91	B08SQ9	1.13	565	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.38E+05	
C106	Ba	4/1/90			0.613	g/L	G	Sludge	Wastren	Ba	6.13E+05	
TY104	Ba	8/6/85	232S0000	1.85	321	ugm/gm	G	Sludge/Composite	Braun	Ba	5.94E+05	
b202	Barium	6/7/91	B0BC06	0.99	587	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.81E+05	
AX102	Ba				14	g-moles	S		TRAC	Ba	5.64E+05	
C106	Ba	2/1/91			350	mg/kg	S	KOH Fusion	RAW	Ba	5.60E+05	
C106	Ba	4/1/90	1		350	mg/kg	S		RAW	Ba	5.60E+05	
C106	Ba	7/22/88			345	mg/kg	G	Sludge	RAW	Ba	5.52E+05	
C106	Ba	8/1/88	2		345	mg/kg	S		RAW	Ba	5.52E+05	
TY104	Ba	8/16/85	261S0000	1.48	330	ugm/gm	G	Sludge/Composite	Braun	Ba	4.88E+05	
TY104	Ba	8/6/85	261SXXXX	1.48	330	ug/g	I	core composite	RAW	Ba	4.88E+05	
TY104	Ba	8/16/85			0.488	g/L	G	Sludge	Wastren	Ba	4.88E+05	
U110	Barium	12/1/89	Core Composite 6	1.54	299.074	ug/g	I	PRIMARY	U110 Core Data	Ba	4.61E+05	
A106	Ba				277	g-moles	S		TRAC	Ba	4.56E+05	
B101	Ba				117	g-moles	S		TRAC	Ba	4.46E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	
C102	Ba	7/10/86	E1XCOOXM		270	ugm/gm	G	Sludge/Composite	Braun	Ba	4.32E+05	
C102	Ba	6/17/87			270	uG/G	S	PARR	RAW	Ba	4.32E+05	
C102	Ba	1/21/88	E1XCOOXM		270	ug/g	S	PARR	RAW	Ba	4.32E+05	
SX103	Ba	10/10/77			0.412	g/L	G	Sludge	Wastren	Ba	4.12E+05	
c112	Barium	3/1/92	B08DN8	1.6	251.3	ug/g	S	PRIMARY RESULT	TCD	Ba	4.02E+05	
A103	Ba				87.4078	g-moles	S		TRAC	Ba	3.96E+05	
b202	Barium	6/7/91	B0BC06	0.99	375	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.71E+05	
b202	Barium	6/7/91	B0BC06	0.99	367	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.63E+05	
B110	Barium	4/1/90	CORE 1 SEGMENT 2	1.3	245.478	ug/g	I	DUPLICATE	B110 Core Data	Ba	3.19E+05	
TY106	Ba	9/26/85	161COOOO	1.43	212	ugm/gm	G	Sludge/Composite	Braun	Ba	3.03E+05	
TY106	Ba	9/26/85			0.303	g/L	G	Sludge	Wastren	Ba	3.03E+05	
U110	Barium	12/1/89	Core 12 Segment 2	1.77	169	ug/g	I	PRIMARY	U110 Core Data	Ba	2.99E+05	
B110	Barium	4/1/90	CORE 1 SEGMENT 2	1.3	229.974	ug/g	I	PRIMARY	B110 Core Data	Ba	2.99E+05	
U110	Barium	12/1/89	Core 12 Segment 2	1.77	166	ug/g	I	DUPLICATE	U110 Core Data	Ba	2.94E+05	
c112	Barium	3/1/92	B08DY1	2	136.4	ug/g	S	PRIMARY RESULT	TCD	Ba	2.73E+05	
c112	Barium	3/1/92	B08DY1	2	135.9	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.72E+05	
U110	Ba	11/29/89	89-070		169	ugm/gm	G	Sludge	Braun	Ba	2.70E+05	
t111	Barium	11/1/91	B08SX5	1.06	252	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.67E+05	
T111	Ba	8/7/92	J-410	1.06	251	ugm/gm	G	Sludge	Braun	Ba	2.66E+05	
t111	Barium	11/1/91	B08SX5	1.06	251	ug/g	S	PRIMARY RESULT	TCD	Ba	2.66E+05	
C105	Ba	4/1/90			0.263	g/L	G	Sludge	Wastren	Ba	2.63E+05	
t111	Barium	11/1/91	B08SX5	1.06	245	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.60E+05	
b202	Barium	6/7/91	B0BC06	0.99	262	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.59E+05	
U110	Ba	11/30/89	89-075		158	ugm/gm	G	Sludge	Braun	Ba	2.53E+05	
t111	Barium	11/1/91	B08SX5	1.06	238	ug/g	S	PRIMARY RESULT	TCD	Ba	2.52E+05	
B110	Barium	4/1/90	CORE 1 SEGMENT 4	1.3	192.545	ug/g	I	PRIMARY	B110 Core Data	Ba	2.50E+05	
C105	Ba	2/1/91			150	mg/kg	S	KOH Fusion	RAW	Ba	2.40E+05	
U110	Ba	12/15/89	89-070/1/2		143	ugm/gm	G	Sludge/Composite	Braun	Ba	2.29E+05	
B110	Barium	4/1/90	CORE 1 SEGMENT 3	1.3	169.533	ug/g	I	PRIMARY	B110 Core Data	Ba	2.20E+05	
c112	Barium	3/1/92	B08DM7	1.6	136.7	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.19E+05	
B110	Barium	4/1/90	CORE 1 SEGMENT 4	1.3	167.86	ug/g	I	DUPLICATE	B110 Core Data	Ba	2.18E+05	
B110	Barium	4/1/90	CORE*1 SEGMENT 3	1.3	167.076	ug/g	I	DUPLICATE	B110 Core Data	Ba	2.17E+05	
c112	Barium	3/1/92	B08DY1	2	104.6	ug/g	S	PRIMARY RESULT	TCD	Ba	2.09E+05	
b202	Barium	6/7/91	B08SP5	0.87	240	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.09E+05	
t111	Barium	11/1/91	B08ST9	1.11	188	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.09E+05	
c112	Barium	3/1/92	B08DY1	2	104.1	ug/g	S	PRIMARY RESULT	TCD	Ba	2.08E+05	
c112	Barium	3/1/92	B08DY1	2	102	ug/g	S	PRIMARY RESULT	TCD	Ba	2.04E+05	
U110	Barium	12/1/89	Core Composite 12	1.42	143	ug/g	I	PRIMARY	U110 Core Data	Ba	2.03E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
t111	Barium	11/1/91	B08ST9	1.11	182	ug/g	S	PRIMARY RESULT	TCD	Ba	2.02E+05	
T111	Ba	8/7/92	J-404	1.11	181.2	ugm/gm	G	Sludge	Braun	Ba	2.01E+05	
t111	Barium	11/1/91	B08ST9	1.11	181	ug/g	S	PRIMARY RESULT	TCD	Ba	2.01E+05	
c112	Barium	3/1/92	B08DY1	2	99.7	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.99E+05	
c112	Barium	3/1/92	B08DY1	2	98.7	ug/g	S	PRIMARY RESULT	TCD	Ba	1.97E+05	
c112	Barium	3/1/92	B08DY1	2	98.3	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.97E+05	
t111	Barium	11/1/91	B08ST9	1.11	174	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.93E+05	
c112	Barium	3/1/92	B08DY1	2	95.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.91E+05	
c112	Barium	3/1/92	B08DY1	2	95	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.90E+05	
c112	Barium	3/1/92	B08DY1	2	93.2	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.86E+05	
c112	Barium	3/1/92	B08DY1	2	92.1	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.84E+05	
c112	Barium	3/1/92	B08DY1	2	91.9	ug/g	S	PRIMARY RESULT	TCD	Ba	1.84E+05	
c112	Barium	3/1/92	B08DM7	1.6	114.2	ug/g	S	PRIMARY RESULT	TCD	Ba	1.83E+05	
U107	Ba				4.992	g-moles	S		TRAC	Ba	1.81E+05	
U110	Barium	12/1/89	Core 13 Segment 3	1.14	158	ug/g	I	PRIMARY	U110 Core Data	Ba	1.80E+05	
c112	Barium	3/1/92	B08DM7	1.6	111.9	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.79E+05	
C102	Ba	2/1/91			110	mg/kg	S	KOH Fusion	RAW	Ba	1.76E+05	
c112	Barium	3/1/92	B08DY1	2	87.4	ug/g	S	PRIMARY RESULT	TCD	Ba	1.75E+05	
c112	Barium	3/1/92	B08DN6	1.3	134.3	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.75E+05	
b202	Barium	6/7/91	B08SP5	0.87	199	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.73E+05	
C102	Ba	2/1/91			108	mg/kg	S	Na2O2 Fusion	RAW	Ba	1.73E+05	
C102	Ba	2/1/91			105	mg/kg	S	KOH Fusion	RAW	Ba	1.68E+05	
U110	Barium	12/1/89	Core 13 Segment 3	1.14	145	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.65E+05	
c112	Barium	3/1/92	B08DM7	1.6	103	ug/g	S	PRIMARY RESULT	TCD	Ba	1.65E+05	
TY104	Ba				1.78916	g-moles	S		TRAC	Ba	1.62E+05	
b202	Barium	6/7/91	B08SP5	0.87	185	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.61E+05	
c112	Barium	3/1/92	B08DM7	1.6	99.1	ug/g	S	PRIMARY RESULT	TCD	Ba	1.59E+05	
B110	Barium	4/1/90	CORE 4 SEGMENT 3	1.3	116.103	ug/g	I	DUPLICATE	B110 Core Data	Ba	1.51E+05	
c112	Barium	3/1/92	B08DN6	1.3	115.8	ug/g	S	PRIMARY RESULT	TCD	Ba	1.51E+05	
B110	Barium	4/1/90	CORE 2 SEGMENT 1	1.24	116.892	ug/g	I	PRIMARY	B110 Core Data	Ba	1.45E+05	
BY110	Ba				19.9984	g-moles	S		TRAC	Ba	1.45E+05	
c112	Barium	3/1/92	B08DM7	1.6	90	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.44E+05	
b202	Barium	6/7/91	B08SP5	0.87	162	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.41E+05	
b202	Barium	6/7/91	B08SP5	0.87	161.934	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.41E+05	
U110	Barium	12/1/89	Core Composite 7	1.675	84	ug/g	I	PRIMARY	U110 Core Data	Ba	1.41E+05	
b202	Barium	6/7/91	B08SP5	0.87	161.676	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.41E+05	
C102	Ba	2/1/91	2		87	mg/kg	S	Total	RAW	Ba	1.39E+05	
C203	Ba				0.076	g-moles	S		TRAC	Ba	1.38E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Ba	11/15/89	89-046/7/8/9		84	ugm/gm	G	Sludge/Composite	Braun	Ba	1.34E+05	
B110	Barium	4/1/90	CORE 2 SEGMENT 1	1.24	105.432	ug/g	I	DUPLICATE	B110 Core Data	Ba	1.31E+05	
U110	Ba	11/29/89	89-072		78	ugm/gm	G	Sludge	Braun	Ba	1.25E+05	
c112	Barium	3/1/92	B08DM6	1.5	82.7	ug/g	S	PRIMARY RESULT	TCD	Ba	1.24E+05	
U110	Ba	12/4/89	89-082/3/4		77	ugm/gm	G	Sludge/Composite	Braun	Ba	1.23E+05	
C102	Ba	2/1/91	1		77	mg/kg	S	Total	RAW	Ba	1.23E+05	
B110	Barium	4/1/90	CORE 3 SEGMENT 3	1.3	92.9789	ug/g	I	DUPLICATE	B110 Core Data	Ba	1.21E+05	
c109	Barium	9/1/92	B08T15	1.2	100	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.20E+05	
c112	Barium	3/1/92	B08DM6	1.5	79.9	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.20E+05	
c112	Barium	3/1/92	B08DN8	1.6	74.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.19E+05	
T101	Ba				3.27958	g-moles	S		TRAC	Ba	1.19E+05	
U110	Ba	11/10/89	89-043		74	ugm/gm	G	Sludge	Braun	Ba	1.18E+05	
U110	Barium	12/1/89	Core 6 Segment 2	1.59	74	ug/g	I	PRIMARY	U110 Core Data	Ba	1.18E+05	
c112	Barium	3/1/92	B08DN8	1.6	72.5	ug/g	S	PRIMARY RESULT	TCD	Ba	1.16E+05	
U110	Barium	12/1/89	Core 12 Segment 4	1.48	78	ug/g	I	PRIMARY	U110 Core Data	Ba	1.15E+05	
B110	Barium	4/1/90	Core Composite 9	1.32	87.0684	ug/g	I	PRIMARY	B110 Core Data	Ba	1.15E+05	
c109	Barium	9/1/92	B08T16	1.3	84	ug/g	S	PRIMARY RESULT	TCD	Ba	1.09E+05	
U110	Barium	12/1/89	Core 15 Segment 3	1.3	84	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.09E+05	
U110	Barium	12/1/89	Core Composite 7	1.675	63	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.06E+05	
B110	Barium	4/1/90	CORE 4 SEGMENT 2	1.3	80.8299	ug/g	I	PRIMARY	B110 Core Data	Ba	1.05E+05	
T111	Ba	8/7/92	J-470		65.4	ugm/gm	G	Sludge/Composite	Braun	Ba	1.05E+05	
B110	Barium	4/1/90	CORE 4 SEGMENT 5	1.3	78.3941	ug/g	I		B110 Core Data	Ba	1.02E+05	
B102	Ba				8.96976	g-moles	S		TRAC	Ba	1.02E+05	
U110	Barium	12/1/89	Core 7 Segment 1	1.78	57	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.01E+05	
c109	Barium	9/1/92	B08T15	1.2	84	ug/g	S	PRIMARY RESULT	TCD	Ba	1.01E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
U110	Barium	12/1/89	Core Composite 15	1.29	77	ug/g	I	PRIMARY	U110 Core Data	Ba	9.93E+04	
c109	Barium	9/1/92	B08T16	1.3	75	ug/g	S	DUPLICATE RESULT	TCD	Ba	9.75E+04	
b201	Barium	8/1/91	B08F17	1.2	80.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	9.67E+04	
B110	Barium	4/1/90	Core Composite 9	1.32	72.1424	ug/g	I	DUPLICATE	B110 Core Data	Ba	9.52E+04	
c109	Barium	9/1/92	B08T16	1.3	73	ug/g	S	PRIMARY RESULT	TCD	Ba	9.49E+04	
c109	Barium	9/1/92	B08T15	1.2	79	ug/g	S	DUPLICATE RESULT	TCD	Ba	9.48E+04	
T111	Ba	8/7/92	J-466		58.8	ugm/gm	G	Sludge/Composite	Braun	Ba	9.41E+04	
B110	Barium	4/1/90	Core Composite 1	1.36	68.1348	ug/g	I	PRIMARY	B110 Core Data	Ba	9.27E+04	
c109	Barium	9/1/92	B08T15	1.2	77	ug/g	S	PRIMARY RESULT	TCD	Ba	9.24E+04	
c112	Barium	3/1/92	B08DN6	1.3	70.8	ug/g	S	DUPLICATE RESULT	TCD	Ba	9.20E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 3	1.29	71.1779	ug/g	I	DUPLICATE	B110 Core Data	Ba	9.18E+04	
c112	Barium	3/1/92	B08DN6	1.3	70.5	ug/g	S	PRIMARY RESULT	TCD	Ba	9.17E+04	

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ICF KH
4/12/95

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
B110	Barium	4/1/90	CORE 3 SEGMENT 5	1.3	70.3235	ug/g	I	DUPLICATE	B110 Core Data	Ba	9.14E+04	
B110	Barium	4/1/90	CORE 10 SEGMENT 5	1.36	66.0377	ug/g	I		B110 Core Data	Ba	8.98E+04	
b201	Barium	8/1/91	B08F17	1.2	74.2	ug/g	S	PRIMARY RESULT	TCD	Ba	8.90E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 3	1.29	68.7235	ug/g	I	PRIMARY	B110 Core Data	Ba	8.87E+04	
B110	Barium	4/1/90	Core Composite 10	1.34	66.0195	ug/g	I	DUPLICATE	B110 Core Data	Ba	8.85E+04	
B110	Barium	4/1/90	CORE 3 SEGMENT 5	1.3	67.9794	ug/g	I	PRIMARY	B110 Core Data	Ba	8.84E+04	
b201	Barium	8/1/91	B08F17	1.2	73.5	ug/g	S	PRIMARY RESULT	TCD	Ba	8.82E+04	
C106	Ba				118	g-moles	S		TRAC	Ba	8.55E+04	
b201	Barium	8/1/91	B08F17	1.2	71	ug/g	S	DUPLICATE RESULT	TCD	Ba	8.52E+04	
B110	Barium	4/1/90	Core Composite 10	1.34	63.5743	ug/g	I	PRIMARY	B110 Core Data	Ba	8.52E+04	
U110	Ba	9/19/89	89-040		53	ugm/gm	G	Sludge	Braun	Ba	8.48E+04	
U110	Ba	12/4/89	89-083		53	ugm/gm	G	Sludge	Braun	Ba	8.48E+04	
B103	Ba				5.82951	g-moles	S		TRAC	Ba	8.45E+04	
c112	Barium	3/1/92	B08DM7	1.6	52.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	8.42E+04	
c109	Barium	9/1/92	B08T16	1.3	64	ug/g	S	DUPLICATE RESULT	TCD	Ba	8.32E+04	
c112	Barium	3/1/92	B08DM7	1.6	51.3	ug/g	S	DUPLICATE RESULT	TCD	Ba	8.21E+04	
b201	Barium	8/1/91	B08F21	1.3	63.1	ug/g	S	PRIMARY RESULT	TCD	Ba	8.20E+04	
TY105	Ba				11.2994	g-moles	S		TRAC	Ba	8.19E+04	
b201	Barium	8/1/91	B08F21	1.3	62	ug/g	S	DUPLICATE RESULT	TCD	Ba	8.06E+04	
B110	Barium	4/1/90	CORE 10 SEGMENT 5	1.36	58.9623	ug/g	I		B110 Core Data	Ba	8.02E+04	
c112	Barium	3/1/92	B08DM7	1.6	50	ug/g	S	PRIMARY RESULT	TCD	Ba	8.00E+04	
b201	Barium	8/1/91	B08F21	1.3	61.5	ug/g	S	PRIMARY RESULT	TCD	Ba	8.00E+04	
TY105	Ba	9/13/85	61XC0000		49.9	ugm/gm	G	Sludge/Composite	Braun	Ba	7.98E+04	
B110	Barium	4/1/90	Core Composite 3	1.36	58.6625	ug/g	I	DUPLICATE	B110 Core Data	Ba	7.98E+04	
B110	Barium	4/1/90	Core Composite 1	1.36	58.4013	ug/g	I	DUPLICATE	B110 Core Data	Ba	7.94E+04	
c112	Barium	3/1/92	B08DM7	1.6	49	ug/g	S	DUPLICATE RESULT	TCD	Ba	7.84E+04	
c112	Barium	3/1/92	B08DM7	1.6	49	ug/g	S	PRIMARY RESULT	TCD	Ba	7.84E+04	
U110	Barium	12/1/89	Core Composite 15	1.29	60.6091	ug/g	I	PRIMARY	U110 Core Data	Ba	7.82E+04	
c112	Barium	3/1/92	B08DM7	1.6	48.8	ug/g	S	PRIMARY RESULT	TCD	Ba	7.81E+04	
c112	Barium	3/1/92	B08DM7	1.6	48.4	ug/g	S	DUPLICATE RESULT	TCD	Ba	7.74E+04	
c112	Barium	3/1/92	B08DM7	1.6	48.2	ug/g	S	PRIMARY RESULT	TCD	Ba	7.71E+04	
BY111	Ba				16.8979	g-moles	S		TRAC	Ba	7.65E+04	
TY105	Ba	9/13/85	61XC0000	1.53	49.9	ugm/gm	G	Sludge/Composite	Braun	Ba	7.63E+04	
TY105	Ba	9/13/85			0.0763	g/L	G	Sludge	Wastren	Ba	7.63E+04	
U110	Barium	12/1/89	Core Composite 5	1.04	73.3499	ug/g	I	PRIMARY	U110 Core Data	Ba	7.63E+04	
U110	Barium	12/1/89	Core 12 Segment 4	1.48	51	ug/g	I	DUPLICATE	U110 Core Data	Ba	7.55E+04	
c112	Barium	3/1/92	B08DN6	1.3	58	ug/g	S	PRIMARY RESULT	TCD	Ba	7.54E+04	
c112	Barium	3/1/92	B08DN6	1.3	57.4	ug/g	S	DUPLICATE RESULT	TCD	Ba	7.46E+04	

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DF KH
4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Barium	4/1/90	CORE 2 SEGMENT 5	1.28	57.9206	ug/g	I	PRIMARY	B110 Core Data	Ba	7.41E+04	
BY104	Ba	11/12/92			0.0735	g/L	K	Saltcake	Wastren	Ba	7.35E+04	
c109	Barium	9/1/92	B08T17	1.2	61	ug/g	S	DUPLICATE RESULT	TCD	Ba	7.32E+04	
b111	Barium	10/1/91	B08XB7	1.3	56	ug/g	S	PRIMARY RESULT	TCD	Ba	7.28E+04	
U110	Barium	12/1/89	Core Composite 7	1.675	43.4555	ug/g	I	DUPLICATE	U110 Core Data	Ba	7.28E+04	
U110	Ba	11/15/89	89-048		45	ugm/gm	G	Sludge	Braun	Ba	7.20E+04	
c112	Barium	3/1/92	B08DN6	1.3	55.1	ug/g	S	PRIMARY RESULT	TCD	Ba	7.16E+04	
c109	Barium	9/1/92	B08T17	1.2	59	ug/g	S	PRIMARY RESULT	TCD	Ba	7.08E+04	
c112	Barium	3/1/92	B08DN6	1.3	53.7	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.98E+04	
U110	Barium	12/1/89	Core 15 Segment 3	1.3	53	ug/g	I	PRIMARY	U110 Core Data	Ba	6.89E+04	
U110	Barium	12/1/89	Core 7 Segment 3	1.53	45	ug/g	I	PRIMARY	U110 Core Data	Ba	6.89E+04	
B110	Barium	4/1/90	CORE 3 SEGMENT 3	1.3	52.4496	ug/g	I	PRIMARY	B110 Core Data	Ba	6.82E+04	
A101	Ba				510	g-moles	S		TRAC	Ba	6.77E+04	
c109	Barium	9/1/92	B08T16	1.3	52	ug/g	S	PRIMARY RESULT	TCD	Ba	6.76E+04	
B110	Barium	4/1/90	CORE 9 SEGMENT 5	1.24	54.3564	ug/g	I		B110 Core Data	Ba	6.74E+04	
BY104	Ba	11/12/92	R-1773		42	ugm/gm	T	Crust	Braun	Ba	6.72E+04	
BY104	Ba	10/26/92	riser 5		42	ug/g	S	fusion digestion	RAW	Ba	6.72E+04	
c109	Barium	9/1/92	B08T17	1.2	56	ug/g	S	PRIMARY RESULT	TCD	Ba	6.72E+04	
B110	Barium	4/1/90	Core Composite 3	1.36	48.8854	ug/g	I	PRIMARY	B110 Core Data	Ba	6.65E+04	
U110	Barium	12/1/89	Core Composite 12	1.42	46.7702	ug/g	I	PRIMARY	U110 Core Data	Ba	6.64E+04	
U110	Barium	12/1/89	Core Composite 6	1.54	43	ug/g	I	DUPLICATE	U110 Core Data	Ba	6.62E+04	
c109	Barium	9/1/92	B08T16	1.3	50	ug/g	S	PRIMARY RESULT	TCD	Ba	6.50E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 5	1.3	49.8872	ug/g	I		B110 Core Data	Ba	6.49E+04	
b201	Barium	8/1/91	B08RP3	1.2	54	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.48E+04	
c109	Barium	9/1/92	B08T17	1.2	54	ug/g	S	PRIMARY RESULT	TCD	Ba	6.48E+04	
A105	Ba				1.42985	g-moles	S		TRAC	Ba	6.48E+04	
TX114	Ba				7.13895	g-moles	S		TRAC	Ba	6.47E+04	
B110	Barium	4/1/90	CORE 9 SEGMENT 5	1.24	51.9931	ug/g	I		B110 Core Data	Ba	6.45E+04	
U110	Barium	12/1/89	Core Composite 5	1.04	61.5152	ug/g	I	DUPLICATE	U110 Core Data	Ba	6.40E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 2	1.3	49.0956	ug/g	I	PRIMARY	B110 Core Data	Ba	6.38E+04	
U110	Barium	12/1/89	Core Composite 13	1.3	48.8698	ug/g	I	PRIMARY	U110 Core Data	Ba	6.35E+04	
S104	Ba	4/13/90			0.0634	g/L	G	Sludge	Wastren	Ba	6.34E+04	
C102	Ba	2/1/91	2		39.6	mg/kg	S	water leach	RAW	Ba	6.34E+04	
c112	Barium	3/1/92	B08DN8	1.6	39.4	ug/g	S	PRIMARY RESULT	TCD	Ba	6.30E+04	
b201	Barium	8/1/91	B08F21	1.3	48.3	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.28E+04	
b201	Barium	8/1/91	B08RP3	1.2	52	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.24E+04	
U110	Barium	12/1/89	Core Composite 8		39	ug/g	I	DUPLICATE	U110 Core Data	Ba	6.24E+04	
U110	Barium	12/1/89	Core Composite 13	1.3	48	ug/g	I	PRIMARY	U110 Core Data	Ba	6.24E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX109	Ba				11.9985	g-moles	S		TRAC	Ba	6.21E+04	
s104	Barium	8/1/92	B08TL3	1.6	38.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	6.21E+04	
s104	Barium	8/1/92	B08TL3		38.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	6.21E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 5	1.28	48.2672	ug/g	I	DUPLICATE	B110 Core Data	Ba	6.18E+04	
U110	Barium	12/1/89	Core 15 Segment 4	1.31	47	ug/g	I	DUPLICATE	U110 Core Data	Ba	6.16E+04	
B110	Barium	4/1/90	CORE 18 SEGMENT 5	1.21	50.6402	ug/g	I		B110 Core Data	Ba	6.13E+04	
c109	Barium	9/1/92	B08T17	1.2	51	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.12E+04	
c109	Barium	9/1/92	B08T17	1.2	51	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.12E+04	
s104	Barium	8/1/92	B08S48	1.6	38.2	mg/kg	S	PRIMARY RESULT	TCD	Ba	6.11E+04	
s104	Barium	8/1/92	B08S48		38.2	mg/kg	S	PRIMARY RESULT	TCD	Ba	6.11E+04	
c109	Barium	9/1/92	B08T16	1.3	47	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.11E+04	
c109	Barium	9/1/92	B08T16	1.3	47	ug/g	S	DUPLICATE RESULT	TCD	Ba	6.11E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 2	1.3	46.5116	ug/g	I	DUPLICATE	B110 Core Data	Ba	6.05E+04	
U110	Barium	12/1/89	Core 6 Segment 2	1.59	38	ug/g	I	DUPLICATE	U110 Core Data	Ba	6.04E+04	
C101	Ba				109	g-moles	S		TRAC	Ba	6.02E+04	
b201	Barium	8/1/91	B08RP3	1.2	50	ug/g	S	PRIMARY RESULT	TCD	Ba	6.00E+04	
c109	Barium	9/1/92	B08T16	1.3	46	ug/g	S	PRIMARY RESULT	TCD	Ba	5.98E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 2	1.3	45.8036	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.95E+04	
C102	Ba	2/1/91	1		37.2	mg/kg	S	water leach	RAW	Ba	5.95E+04	
B110	Barium	4/1/90	Core Composite 2	1.33	44.5887	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.93E+04	
B110	Barium	4/1/90	Core Composite 2	1.33	44.5887	ug/g	I	PRIMARY	B110 Core Data	Ba	5.93E+04	
c112	Barium	3/1/92	B08DN8	1.6	37	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.92E+04	
c112	Barium	3/1/92	B08DM7	1.6	37	ug/g	S	PRIMARY RESULT	TCD	Ba	5.92E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 3	1.3	45.4316	ug/g	I	PRIMARY	B110 Core Data	Ba	5.91E+04	
c109	Barium	9/1/92	B08T17	1.2	49	ug/g	S	PRIMARY RESULT	TCD	Ba	5.88E+04	
s104	Barium	8/1/92	B08TL4	1.6	36.7	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.87E+04	
s104	Barium	8/1/92	B08TL4		36.7	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.87E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 2	1.24	47.2565	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.86E+04	
s104	Barium	8/1/92	B08S48	1.6	36.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.86E+04	
s104	Barium	8/1/92	B08S48		36.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.86E+04	
c109	Barium	9/1/92	B08T16	1.3	45	ug/g	S	PRIMARY RESULT	TCD	Ba	5.85E+04	
S104	Ba	6/24/93	F-2177		36.2	ugm/gm	G	Sludge	Braun	Ba	5.79E+04	
b201	Barium	8/1/91	B08RP3	1.2	48	ug/g	S	PRIMARY RESULT	TCD	Ba	5.76E+04	
c109	Barium	9/1/92	B08T17	1.2	48	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.76E+04	
B110	Barium	4/1/90	Core Composite 18	1.37	41.7459	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.72E+04	
U110	Barium	12/1/89	Core 15 Segment 2	1.27	45	ug/g	I	DUPLICATE	U110 Core Data	Ba	5.72E+04	
t111	Barium	11/1/91	B08ST5	0.88	64.8	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.70E+04	
c112	Barium	3/1/92	B08DM7	1.6	35.1	ug/g	S	PRIMARY RESULT	TCD	Ba	5.62E+04	

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DF KH
4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
s104	Barium	8/1/92	B08TJ5	1.6	35.1	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.62E+04		
s104	Barium	8/1/92	B08TJ5		35.1	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.62E+04		
c109	Barium	9/1/92	B08T16	1.3	43	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.59E+04		
B110	Barium	4/1/90	CORE 18 SEGMENT 5	1.21	46.0797	ug/g	I		B110 Core Data	Ba	5.58E+04		
s104	Barium	8/1/92	B08S48	1.6	34.7	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.55E+04		
s104	Barium	8/1/92	B08S48		34.7	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.55E+04		
B110	Barium	4/1/90	Core Composite 18	1.37	40.3497	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.53E+04		
c109	Barium	9/1/92	B08T15	1.2	46	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.52E+04		
U110	Barium	12/1/89	Core 5 Segment 3	1.04	53	ug/g	I	PRIMARY	U110 Core Data	Ba	5.51E+04		
s104	Barium	8/1/92	B08TJ4	1.6	34.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.49E+04		
s104	Barium	8/1/92	B08TJ4		34.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.49E+04		
c109	Barium	9/1/92	B08T16	1.3	42	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.46E+04		
c112	Barium	3/1/92	B08DN8	1.6	34.1	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.46E+04		
s104	Barium	8/1/92	B08TJ5	1.6	34.1	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.46E+04		
s104	Barium	8/1/92	B08TJ5		34.1	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.46E+04		
t111	Barium	11/1/91	B08ST5	0.88	61.7	ug/g	S	PRIMARY RESULT	TCD	Ba	5.43E+04		
c112	Barium	3/1/92	B08DN8	1.6	33.9	ug/g	S	PRIMARY RESULT	TCD	Ba	5.42E+04		
S104	Ba	6/24/93	F-2175		33.8	ugm/gm	G	Sludge	Braun	Ba	5.41E+04		
s104	Barium	8/1/92	B08S48	1.6	33.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.41E+04		
s104	Barium	8/1/92	B08S48		33.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.41E+04		
c112	Barium	3/1/92	B08DM7	1.6	33.7	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.39E+04		
s104	Barium	8/1/92	B08TL3	1.6	33.6	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.38E+04		
s104	Barium	8/1/92	B08TL3		33.6	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.38E+04		
s104	Barium	8/1/92	B08TJ4	1.6	33.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.34E+04		
s104	Barium	8/1/92	B08TJ4		33.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.34E+04		
c112	Barium	3/1/92	B08DM7	1.6	33.3	ug/g	S	PRIMARY RESULT	TCD	Ba	5.33E+04		
s104	Barium	8/1/92	B08TL4	1.6	33.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.33E+04		
s104	Barium	8/1/92	B08TL4		33.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.33E+04		
B110	Barium	4/1/90	Core Composite 18	1.37	38.7656	ug/g	I	PRIMARY	B110 Core Data	Ba	5.31E+04		
t111	Barium	11/1/91	B08ST5	0.88	60.2	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.30E+04		
U110	Barium	12/1/89	Core Composite 15	1.29	41	ug/g	I	DUPLICATE	U110 Core Data	Ba	5.29E+04		
S108	Ba				14.5924	g-moles	S		TRAC	Ba	5.29E+04		
c109	Barium	9/1/92	B08T15	1.2	44	ug/g	S	PRIMARY RESULT	TCD	Ba	5.28E+04		
C102	Ba	1/21/88	E1XCOOXX		32.9	PPM	S	Raw PARR	RAW	Ba	5.26E+04		
c112	Barium	3/1/92	B08DN8	1.6	32.9	ug/g	S	PRIMARY RESULT	TCD	Ba	5.26E+04		
B110	Barium	4/1/90	CORE 4 SEGMENT 2	1.3	40.4149	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.25E+04		
B110	Barium	4/1/90	Core Composite 10	1.34	39.1227	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.24E+04		
B110	Barium	4/1/90	Core Composite 10	1.34	39.1227	ug/g	I	PRIMARY	B110 Core Data	Ba	5.24E+04		

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ICF KH
4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
U110	Barium	12/1/89	Core Composite 14	1.48	35.3154	ug/g	I	PRIMARY	U110 Core Data	Ba	5.23E+04	
c112	Barium	3/1/92	B08DM7	1.6	32.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.22E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 2	1.24	42.0058	ug/g	I	PRIMARY	B110 Core Data	Ba	5.21E+04	
b111	Barium	10/1/91	B08XB9	1	52	ug/g	S	PRIMARY RESULT	TCD	Ba	5.20E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 4	1.3	39.9102	ug/g	I		B110 Core Data	Ba	5.19E+04	
c112	Barium	3/1/92	B08DM7	1.6	32.4	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.18E+04	
U110	Ba	12/3/89	89-078		32	ugm/gm	G	Sludge	Braun	Ba	5.12E+04	
T111	Ba	8/7/92	J-398	0.88	58.1	ugm/gm	G	Sludge	Braun	Ba	5.11E+04	
t111	Barium	11/1/91	B08ST5	0.88	58.1	ug/g	S	PRIMARY RESULT	TCD	Ba	5.11E+04	
U110	Barium	12/1/89	Core Composite 12	1.42	36	ug/g	I	PRIMARY	U110 Core Data	Ba	5.11E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 3	1.3	39.312	ug/g	I	DUPLICATE	B110 Core Data	Ba	5.11E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 3	1.3	39.312	ug/g	I	PRIMARY	B110 Core Data	Ba	5.11E+04	
c112	Barium	3/1/92	B08DM7	1.6	31.9	ug/g	S	PRIMARY RESULT	TCD	Ba	5.10E+04	
c112	Barium	3/1/92	B08DN8	1.6	31.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	5.06E+04	
c109	Barium	9/1/92	B08T17	1.2	42	ug/g	S	PRIMARY RESULT	TCD	Ba	5.04E+04	
s104	Barium	8/1/92	B08TF7	1.6	31.5	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.04E+04	
s104	Barium	8/1/92	B08TF7		31.5	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.04E+04	
B110	Barium	4/1/90	Core Composite 18	1.37	36.6092	ug/g	I	PRIMARY	B110 Core Data	Ba	5.02E+04	
U110	Barium	12/1/89	Core 14 Segment 2	1.39	36	ug/g	I	DUPLICATE	U110 Core Data	Ba	5.00E+04	
U110	Barium	12/1/89	Core Composite 6	1.54	32.4306	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.99E+04	
U110	Barium	12/1/89	Core Composite 12	1.42	35	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.97E+04	
B110	Barium	4/1/90	CORE 3 SEGMENT 3	1.3	38.1452	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.96E+04	
B110	Barium	4/1/90	CORE 3 SEGMENT 3	1.3	38.1452	ug/g	I	PRIMARY	B110 Core Data	Ba	4.96E+04	
b111	Barium	10/1/91	B08XB7	1.3	38	ug/g	S	PRIMARY RESULT	TCD	Ba	4.94E+04	
U110	Barium	12/1/89	Core Composite 13	1.3	38	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.94E+04	
s104	Barium	8/1/92	B08TF7	1.6	30.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+04	
s104	Barium	8/1/92	B08TF7		30.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+04	
U110	Barium	12/1/89	Core Composite 14	1.48	33	ug/g	I	PRIMARY	U110 Core Data	Ba	4.88E+04	
U110	Barium	12/1/89	Core 6 Segment 3	1.22	40	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.88E+04	
c112	Barium	3/1/92	B08DM7	1.6	30.4	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.86E+04	
B110	Barium	4/1/90	CORE 10 SEGMENT 5	1.36	35.3774	ug/g	I		B110 Core Data	Ba	4.81E+04	
B110	Barium	4/1/90	CORE 10 SEGMENT 5	1.36	35.3774	ug/g	I		B110 Core Data	Ba	4.81E+04	
U110	Barium	12/1/89	Core Composite 8		30	ug/g	I	PRIMARY	U110 Core Data	Ba	4.80E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 4	1.28	37.0553	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.74E+04	
U110	Barium	12/1/89	Core Composite 12	1.42	33.1283	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.70E+04	
s104	Barium	8/1/92	B08TF6	1.6	29.3	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.69E+04	
s104	Barium	8/1/92	B08TF6		29.3	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.69E+04	
b111	Barium	10/1/91	B08XB7	1.3	36	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.68E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
c109	Barium	9/1/92	B08T17	1.2	39	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.68E+04			
B110	Barium	4/1/90	Core Composite 3	1.36	34.2198	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.65E+04			
B110	Barium	4/1/90	Core Composite 3	1.36	34.2198	ug/g	I	PRIMARY	B110 Core Data	Ba	4.65E+04			
B110	Barium	4/1/90	CORE 4 SEGMENT 3	1.3	35.3357	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.59E+04			
B110	Barium	4/1/90	CORE 4 SEGMENT 3	1.3	35.3357	ug/g	I	PRIMARY	B110 Core Data	Ba	4.59E+04			
c109	Barium	9/1/92	B08T17	1.2	38	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.56E+04			
c109	Barium	9/1/92	B08T17	1.2	38	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.56E+04			
B110	Barium	4/1/90	CORE 4 SEGMENT 4	1.3	34.9214	ug/g	I		B110 Core Data	Ba	4.54E+04			
C109	Ba				4.47878	g-moles	S		TRAC	Ba	4.51E+04			
U110	Barium	12/1/89	Core Composite 7	1.675	26.8969	ug/g	I	PRIMARY	U110 Core Data	Ba	4.51E+04			
S104	Ba	6/24/93	F-2171		28.1	ugm/gm	G	Sludge	Braun	Ba	4.50E+04			
B110	Barium	4/1/90	Core Composite 4	1.36	32.902	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.47E+04			
B110	Barium	4/1/90	Core Composite 4	1.36	32.902	ug/g	I	PRIMARY	B110 Core Data	Ba	4.47E+04			
U110	Barium	12/1/89	Core Composite 6	1.54	29	ug/g	I	PRIMARY	U110 Core Data	Ba	4.47E+04			
U110	Barium	12/1/89	Core 14 Segment 2	1.39	32	ug/g	I	PRIMARY	U110 Core Data	Ba	4.45E+04			
b111	Barium	10/1/91	B08XB9	1	44	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.40E+04			
TX102	Ba				16.7714	g-moles	S		TRAC	Ba	4.34E+04			
U110	Ba	12/4/89	89-082		27	ugm/gm	G	Sludge	Braun	Ba	4.32E+04			
U110	Ba	12/4/89	89-084		27	ugm/gm	G	Sludge	Braun	Ba	4.32E+04			
s104	Barium	8/1/92	B08TF6	1.6	26.9	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.30E+04			
s104	Barium	8/1/92	B08TF6		26.9	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.30E+04			
B110	Barium	4/1/90	Core Composite 1	1.36	31.634	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.30E+04			
B110	Barium	4/1/90	Core Composite 1	1.36	31.634	ug/g	I	PRIMARY	B110 Core Data	Ba	4.30E+04			
b111	Barium	10/1/91	B08XB9	1	43	ug/g	S	PRIMARY RESULT	TCD	Ba	4.30E+04			
b111	Barium	10/1/91	B08XB7	1.3	33	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.29E+04			
TX112	Ba				5.88914	g-moles	S		TRAC	Ba	4.27E+04			
B110	Barium	4/1/90	CORE 3 SEGMENT 5	1.3	32.8176	ug/g	I	PRIMARY	B110 Core Data	Ba	4.27E+04			
b111	Barium	10/1/91	B08XB9	1	42	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.20E+04			
c109	Barium	9/1/92	B08T17	1.2	35	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.20E+04			
c109	Barium	9/1/92	B08T17	1.2	35	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.20E+04			
B110	Barium	4/1/90	Core Composite 4	1.36	30.7085	ug/g	I	DUPLICATE	B110 Core Data	Ba	4.18E+04			
c112	Barium	3/1/92	B08DN8	1.6	26	ug/g	S	DUPLICATE RESULT	TCD	Ba	4.16E+04			
s104	Barium	8/1/92	B08TL3	1.6	25.9	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.14E+04			
s104	Barium	8/1/92	B08TL3		25.9	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.14E+04			
U110	Barium	12/1/89	Core Composite 14	1.48	28	ug/g	I	DUPLICATE	U110 Core Data	Ba	4.14E+04			
s104	Barium	8/1/92	B08TL3	1.6	25.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.13E+04			
s104	Barium	8/1/92	B08TL3		25.8	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.13E+04			
B110	Barium	4/1/90	CORE 9 SEGMENT 5	1.24	33.0865	ug/g	I		B110 Core Data	Ba	4.10E+04			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Barium	4/1/90	CORE 9 SEGMENT 5	1.24	33.0865	ug/g	I			B110 Core Data	Ba	4.10E+04	
U110	Barium	12/1/89	Core 13 Segment 4	1.46	28	ug/g	I	DUPLICATE		U110 Core Data	Ba	4.09E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 5	1.3	31.4199	ug/g	I	DUPLICATE		B110 Core Data	Ba	4.08E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 5	1.3	31.4199	ug/g	I	PRIMARY		B110 Core Data	Ba	4.08E+04	
B110	Barium	4/1/90	Core Composite 2	1.33	30.5081	ug/g	I	DUPLICATE		B110 Core Data	Ba	4.06E+04	
B110	Barium	4/1/90	Core Composite 2	1.33	30.5081	ug/g	I	PRIMARY		B110 Core Data	Ba	4.06E+04	
U110	Barium	12/1/89	Core Composite 12	1.42	28	ug/g	I	DUPLICATE		U110 Core Data	Ba	3.98E+04	
B110	Barium	4/1/90	CORE 3 SEGMENT 5	1.3	30.4735	ug/g	I	DUPLICATE		B110 Core Data	Ba	3.96E+04	
U110	Barium	12/1/89	Core 7 Segment 2	1.46	27	ug/g	I	PRIMARY		U110 Core Data	Ba	3.94E+04	
B110	Barium	4/1/90	Core Composite 9	1.32	29.852	ug/g	I	DUPLICATE		B110 Core Data	Ba	3.94E+04	
B110	Barium	4/1/90	Core Composite 9	1.32	29.852	ug/g	I	PRIMARY		B110 Core Data	Ba	3.94E+04	
U110	Barium	12/1/89	Core 7 Segment 1	1.78	22	ug/g	I	PRIMARY		U110 Core Data	Ba	3.92E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 2	1.24	31.5043	ug/g	I	DUPLICATE		B110 Core Data	Ba	3.91E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 2	1.24	31.5043	ug/g	I	PRIMARY		B110 Core Data	Ba	3.91E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 4	1.3	29.9327	ug/g	I			B110 Core Data	Ba	3.89E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 2	1.3	29.6376	ug/g	I	PRIMARY		B110 Core Data	Ba	3.85E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 3	1.29	29.4529	ug/g	I	DUPLICATE		B110 Core Data	Ba	3.80E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 3	1.29	29.4529	ug/g	I	PRIMARY		B110 Core Data	Ba	3.80E+04	
BY108	Ba				13.1986	g-moles	S			TRAC	Ba	3.68E+04	
s104	Barium	8/1/92	B08TF7	1.6	22.9	mg/kg	S	DUPLICATE RESULT		TCD	Ba	3.66E+04	
s104	Barium	8/1/92	B08TF7		22.9	mg/kg	S	DUPLICATE RESULT		TCD	Ba	3.66E+04	
c109	Barium	9/1/92	B08T17	1.2	30	ug/g	S	PRIMARY RESULT		TCD	Ba	3.60E+04	
B110	Barium	4/1/90	Core Composite 4	1.36	26.3216	ug/g	I	PRIMARY		B110 Core Data	Ba	3.58E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 4	1.3	27.4383	ug/g	I			B110 Core Data	Ba	3.57E+04	
U110	Barium	12/1/89	Core 15 Segment 4	1.31	27	ug/g	I	PRIMARY		U110 Core Data	Ba	3.54E+04	
s104	Barium	8/1/92	B08S50	1.6	22.1	mg/kg	S	DUPLICATE RESULT		TCD	Ba	3.54E+04	
s104	Barium	8/1/92	B08S50		22.1	mg/kg	S	DUPLICATE RESULT		TCD	Ba	3.54E+04	
s104	Barium	8/1/92	B08TF7	1.6	22.1	mg/kg	S	PRIMARY RESULT		TCD	Ba	3.54E+04	
s104	Barium	8/1/92	B08TF7		22.1	mg/kg	S	PRIMARY RESULT		TCD	Ba	3.54E+04	
U110	Barium	12/1/89	Core Composite 5	1.04	34	ug/g	I	DUPLICATE		U110 Core Data	Ba	3.54E+04	
U110	Ba	9/19/89	89-041		22	ugm/gm	G	Sludge		Braun	Ba	3.52E+04	
U110	Ba	11/15/89	89-046		22	ugm/gm	G	Sludge		Braun	Ba	3.52E+04	
U110	Barium	12/1/89	Core 5 Segment 4		22	ug/g	I	PRIMARY		U110 Core Data	Ba	3.52E+04	
s104	Barium	8/1/92	B08S50	1.6	21.9	mg/kg	S	PRIMARY RESULT		TCD	Ba	3.50E+04	
s104	Barium	8/1/92	B08S50		21.9	mg/kg	S	PRIMARY RESULT		TCD	Ba	3.50E+04	
c109	Barium	9/1/92	B08T17	1.2	29	ug/g	S	PRIMARY RESULT		TCD	Ba	3.48E+04	
c109	Barium	9/1/92	B08T17	1.2	29	ug/g	S	PRIMARY RESULT		TCD	Ba	3.48E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 4	1.28	27.1739	ug/g	I	PRIMARY		B110 Core Data	Ba	3.48E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Barium	4/1/90	CORE 10 SEGMENT 3	1.17	29.5058	ug/g	I		B110 Core Data	Ba	3.45E+04	
B110	Barium	4/1/90	CORE 10 SEGMENT 3	1.17	29.5058	ug/g	I		B110 Core Data	Ba	3.45E+04	
U110	Barium	12/1/89	Core 15 Segment 2	1.27	27	ug/g	I	PRIMARY	U110 Core Data	Ba	3.43E+04	
B110	Barium	4/1/90	CORE 9 SEGMENT 1	1.23	27.8446	ug/g	I		B110 Core Data	Ba	3.42E+04	
B110	Barium	4/1/90	CORE 9 SEGMENT 1	1.23	27.8446	ug/g	I		B110 Core Data	Ba	3.42E+04	
s104	Barium	8/1/92	B08TL4	1.6	21.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.42E+04	
s104	Barium	8/1/92	B08TL4		21.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.42E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 5	1.28	26.547	ug/g	I	DUPLICATE	B110 Core Data	Ba	3.40E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 5	1.28	26.547	ug/g	I	PRIMARY	B110 Core Data	Ba	3.40E+04	
U110	Ba	11/10/89	89-044		21	ugm/gm	G	Sludge	Braun	Ba	3.36E+04	
c109	Barium	9/1/92	B08T17	1.2	28	ug/g	S	PRIMARY RESULT	TCD	Ba	3.36E+04	
s104	Barium	8/1/92	B08TF6	1.6	20.8	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.33E+04	
s104	Barium	8/1/92	B08TF6		20.8	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.33E+04	
U110	Barium	12/1/89	Core Composite 5	1.04	32	ug/g	I	PRIMARY	U110 Core Data	Ba	3.33E+04	
s104	Barium	8/1/92	B08S50	1.6	20.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.30E+04	
s104	Barium	8/1/92	B08S50		20.6	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.30E+04	
s104	Barium	8/1/92	B08TJ4	1.6	20.5	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.28E+04	
s104	Barium	8/1/92	B08TJ4		20.5	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.28E+04	
s104	Barium	8/1/92	B08TJ5	1.6	20.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.26E+04	
s104	Barium	8/1/92	B08TJ5		20.4	mg/kg	S	PRIMARY RESULT	TCD	Ba	3.26E+04	
s104	Barium	8/1/92	B08TL4	1.6	20.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.25E+04	
s104	Barium	8/1/92	B08TL4		20.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.25E+04	
T111	Ba	8/7/92	J-408	1.09	29.5	ugm/gm	G	Sludge	Braun	Ba	3.22E+04	
t111	Barium	11/1/91	B08SV7	1.09	29.5	ug/g	S	PRIMARY RESULT	TCD	Ba	3.22E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 4	1.3	24.6853	ug/g	I	PRIMARY	B110 Core Data	Ba	3.21E+04	
BY104	Ba	11/12/92	R-1775		20	ugm/gm	T	Crust	Braun	Ba	3.20E+04	
BY104	Ba	10/26/92	riser 10b		20	ug/g	S	fusion digestion	RAW	Ba	3.20E+04	
s104	Barium	8/1/92	B08TF6	1.6	20	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.20E+04	
s104	Barium	8/1/92	B08TF6		20	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.20E+04	
s104	Barium	8/1/92	B08TJ5	1.6	19.4	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.10E+04	
s104	Barium	8/1/92	B08TJ5		19.4	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.10E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 5	1.3	23.7558	ug/g	I		B110 Core Data	Ba	3.09E+04	
B110	Barium	4/1/90	CORE 4 SEGMENT 5	1.3	23.7558	ug/g	I		B110 Core Data	Ba	3.09E+04	
BY107	Ba				13.5985	g-moles	S		TRAC	Ba	3.08E+04	
s104	Barium	8/1/92	B08TJ4	1.6	19.2	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.07E+04	
s104	Barium	8/1/92	B08TJ4		19.2	mg/kg	S	DUPLICATE RESULT	TCD	Ba	3.07E+04	
U110	Barium	12/1/89	Core 5 Segment 4		19	ug/g	I	DUPLICATE	U110 Core Data	Ba	3.04E+04	
S111	Ba				32.9961	g-moles	S		TRAC	Ba	2.99E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Barium	8/1/92	B08S50	1.6	18.3	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.93E+04	
s104	Barium	8/1/92	B08S50		18.3	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.93E+04	
T108	Ba				2.519	g-moles	S		TRAC	Ba	2.85E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 4	1.28	22.2332	ug/g	I	DUPLICATE	B110 Core Data	Ba	2.85E+04	
B110	Barium	4/1/90	CORE 2 SEGMENT 4	1.28	22.2332	ug/g	I	PRIMARY	B110 Core Data	Ba	2.85E+04	
s104	Barium	8/1/92	B08S46	1.6	17.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.77E+04	
s104	Barium	8/1/92	B08S46		17.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.77E+04	
s104	Barium	8/1/92	B08S46	1.6	17	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.72E+04	
s104	Barium	8/1/92	B08S46		17	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.72E+04	
s104	Barium	8/1/92	B08S46	1.6	16.9	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.70E+04	
s104	Barium	8/1/92	B08S46		16.9	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.70E+04	
t111	Barium	11/1/91	B08SV7	1.09	24.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.68E+04	
t111	Barium	11/1/91	B08SV7	1.09	24.6	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.68E+04	
TY102	Ba				7.23997	g-moles	S		TRAC	Ba	2.62E+04	
t111	Barium	11/1/91	B08SV7	1.09	24	ug/g	S	PRIMARY RESULT	TCD	Ba	2.62E+04	
U110	Barium	12/1/89	Core 7 Segment 3	1.53	17	ug/g	I	DUPLICATE	U110 Core Data	Ba	2.60E+04	
BY106	Ba				20.098	g-moles	S		TRAC	Ba	2.60E+04	
U110	Barium	12/1/89	Core 14 Segment 4	1.62	16	ug/g	I	DUPLICATE	U110 Core Data	Ba	2.59E+04	
s104	Barium	8/1/92	B08S46	1.6	16.1	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.58E+04	
s104	Barium	8/1/92	B08S46		16.1	mg/kg	S	PRIMARY RESULT	TCD	Ba	2.58E+04	
B110	Barium	4/1/90	CORE 1 SEGMENT 4	1.3	19.7482	ug/g	I	DUPLICATE	B110 Core Data	Ba	2.57E+04	
U110	Barium	12/1/89	Core 6 Segment 3	1.22	21	ug/g	I	PRIMARY	U110 Core Data	Ba	2.56E+04	
TX105	Ba				27.8849	g-moles	S		TRAC	Ba	2.46E+04	
TX110	Ba				9.35947	g-moles	S		TRAC	Ba	2.42E+04	
T111	Ba	8/7/92	J-402	0.93	25.1	ugm/gm	G	Sludge	Braun	Ba	2.33E+04	
t111	Barium	11/1/91	B08ST7	0.93	25.1	ug/g	S	PRIMARY RESULT	TCD	Ba	2.33E+04	
t111	Barium	11/1/91	B08ST7	0.93	24.9	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.32E+04	
t111	Barium	11/1/91	B08ST7	0.93	24.6	ug/g	S	PRIMARY RESULT	TCD	Ba	2.29E+04	
t111	Barium	11/1/91	B08ST7	0.93	23.7	ug/g	S	DUPLICATE RESULT	TCD	Ba	2.20E+04	
TY102	Ba	1/30/86	41XCXXXX	1.88	0.08281	g/gal	I	Core composite	RAW	Ba	2.19E+04	
TY102	Ba	9/9/85	41XC0000	1.88	11.6	ugm/gm	G	Sludge/Composite	Braun	Ba	2.18E+04	
TY102	Ba	1/30/86	41XCXXXX	1.88	11.6	ug/g	I	Core composite	RAW	Ba	2.18E+04	
TY102	Ba	9/9/85			0.0218	g/L	K	Saltcake	Wastren	Ba	2.18E+04	
B112	Ba				49.1	g-moles	S		TRAC	Ba	2.16E+04	
U110	Ba	12/3/89	89-079		13	ugm/gm	G	Sludge	Braun	Ba	2.08E+04	
TY103	Ba				11.9999	g-moles	S		TRAC	Ba	2.07E+04	
C111	Ba				4.24783	g-moles	S		TRAC	Ba	2.05E+04	
s104	Barium	8/1/92	B08TL3	1.6	19.7	ug/mL	S	PRIMARY RESULT	TCD	Ba	1.97E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Barium	8/1/92	B08TL3		19.7	ug/mL	S	PRIMARY RESULT	TCD	Ba	1.97E+04	
BX107	Ba	10/20/92	J925-AV		11.8217	ugm/gm	G	Sludge/Composite	Braun	Ba	1.89E+04	
C105	Ba				135	g-moles	S		TRAC	Ba	1.86E+04	
B202	Ba				0.81514	g-moles	S		TRAC	Ba	1.85E+04	
TX111	Ba				5.05953	g-moles	S		TRAC	Ba	1.83E+04	
U110	Barium	12/1/89	Core 14 Segment 3	1.4	13	ug/g	I	PRIMARY	U110 Core Data	Ba	1.82E+04	
S110	Ba				33.6957	g-moles	S		TRAC	Ba	1.77E+04	
A104	Ba				136	g-moles	S		TRAC	Ba	1.71E+04	
BX107	Ba	10/20/92	J927-AV		10.557	ugm/gm	G	Sludge/Composite	Braun	Ba	1.69E+04	
TY106	Ba	9/4/85		1.31	12.632	ug/g	I	core composite	RAW	Ba	1.65E+04	
B110	Barium	4/1/90	Core Composite 1	1.36	12.1669	ug/g	I	PRIMARY	B110 Core Data	Ba	1.65E+04	
bx107	Barium	6/1/92	B08SD6	0.996	16.5619	ug/g	S	PRIMARY RESULT	TCD	Ba	1.65E+04	
BX107	Ba	10/20/92	J925-AV		10.3	ugm/gm	G	Sludge/Composite	Braun	Ba	1.65E+04	
BY104	Ba				26.7981	g-moles	S		TRAC	Ba	1.65E+04	
BY105	Ba				24.3976	g-moles	S		TRAC	Ba	1.64E+04	
bx107	Barium	6/1/92	B08SD6	0.996	16.4159	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.63E+04	
T107	Ba				2.7	g-moles	S		TRAC	Ba	1.63E+04	
U110	Barium	12/1/89	Core Composite 14	1.48	11	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.63E+04	
bx107	Barium	6/1/92	B08SD6	0.996	16.2325	ug/g	S	PRIMARY RESULT	TCD	Ba	1.62E+04	
TX106	Ba				0.8915	g-moles	S		TRAC	Ba	1.62E+04	
bx107	Barium	6/1/92	B08SD6	0.996	16.0122	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.59E+04	
t102	Barium	3/1/93	B0B732	1.32	12	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.58E+04	
t102	Barium	3/1/93	B0B732	1.32	12	ug/g	S	PRIMARY RESULT	TCD	Ba	1.58E+04	
BX107	Ba				2.99888	g-moles	S		TRAC	Ba	1.55E+04	
U110	Barium	12/1/89	Core Composite 15	1.29	12	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.55E+04	
U110	Barium	12/1/89	Core Composite 15	1.29	12	ug/g	I	PRIMARY	U110 Core Data	Ba	1.55E+04	
U110	Barium	12/1/89	Core 7 Segment 4	1.93	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.54E+04	
U110	Barium	12/1/89	Core Composite 7	1.675	9	ug/g	I	PRIMARY	U110 Core Data	Ba	1.51E+04	
BX107	Ba	10/20/92	J927-AV		9.31	ugm/gm	G	Sludge/Composite	Braun	Ba	1.49E+04	
T104	Ba	1/26/93	T104-C45-C2		9.03	ugm/gm	G	Sludge/Composite	Braun	Ba	1.44E+04	
U110	Barium	12/1/89	Core 6 Segment 4	1.8	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.44E+04	
TX109	Ba				19.0998	g-moles	S		TRAC	Ba	1.41E+04	
BX108	Ba				1.79785	g-moles	S		TRAC	Ba	1.39E+04	
T104	Ba	1/26/93	T104-C45-C1		8.49	ugm/gm	G	Sludge/Composite	Braun	Ba	1.36E+04	
U110	Barium	12/1/89	Core 7 Segment 4	1.93	7	ug/g	I	PRIMARY	U110 Core Data	Ba	1.35E+04	
U110	Barium	12/1/89	Core 14 Segment 1	1.5	9	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.35E+04	
U110	Barium	12/1/89	Core 14 Segment 1	1.5	9	ug/g	I	PRIMARY	U110 Core Data	Ba	1.35E+04	
U110	Barium	12/1/89	Core Composite 7	1.675	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.34E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX107	Ba	10/20/92	J926-AV		8.06565	ugm/gm	G	Sludge/Composite	Braun	Ba	1.29E+04	
U110	Barium	12/1/89	Core Composite 15	1.29	10	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.29E+04	
U110	Barium	12/1/89	Core Composite 8		8	ug/g	I	PRIMARY	U110 Core Data	Ba	1.28E+04	
C202	Ba				0.0789	g-moles	S		TRAC	Ba	1.26E+04	
U110	Barium	12/1/89	Core 14 Segment 3	1.4	9	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.26E+04	
U110	Barium	12/1/89	Core Composite 6	1.54	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.23E+04	
U110	Barium	12/1/89	Core Composite 6	1.54	8	ug/g	I	PRIMARY	U110 Core Data	Ba	1.23E+04	
TY106	Ba				2.31	g-moles	S		TRAC	Ba	1.23E+04	
U110	Barium	12/1/89	Core Composite 14	1.48	8	ug/g	I	PRIMARY	U110 Core Data	Ba	1.18E+04	
U110	Barium	12/1/89	Core Composite 14	1.48	7.99391	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.18E+04	
S106	Ba				15.2885	g-moles	S		TRAC	Ba	1.18E+04	
U110	Barium	12/1/89	Core 7 Segment 2	1.46	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.17E+04	
bx107	Barium	6/1/92	B08SF0	1.326	8.77	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.16E+04	
U110	Barium	12/1/89	Core 14 Segment 4	1.62	7	ug/g	I	PRIMARY	U110 Core Data	Ba	1.13E+04	
bx107	Barium	6/1/92	B08SF0	1.326	8.48	ug/g	S	PRIMARY RESULT	TCD	Ba	1.12E+04	
U110	Barium	12/1/89	Core Composite 8		7	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.12E+04	
t104	Barium	8/26/92	B08S09	1.13	9.91	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.12E+04	
t104	Barium	8/26/92	B08S09	1.13	9.89	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.12E+04	
bx107	Barium	6/1/92	B08SF0	1.326	8.42	ug/g	S	DUPLICATE RESULT	TCD	Ba	1.12E+04	
bx107	Barium	6/1/92	B08SF0	1.326	8.38	ug/g	S	PRIMARY RESULT	TCD	Ba	1.11E+04	
b202	Barium	6/7/91	B08SM2	1.02	10.8676	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.11E+04	
t104	Barium	8/26/92	B08S09	1.13	9.69	mg/kg	S	DUPLICATE RESULT	TCD	Ba	1.09E+04	
SX105	Ba				26.9957	g-moles	S		TRAC	Ba	1.09E+04	
BX107	Ba	10/20/92	J924-AV		6.75	ugm/gm	G	Sludge/Composite	Braun	Ba	1.08E+04	
U110	Barium	12/1/89	Core 6 Segment 4	1.8	6	ug/g	I	PRIMARY	U110 Core Data	Ba	1.08E+04	
BY101	Ba				30.7993	g-moles	S		TRAC	Ba	1.07E+04	
t104	Barium	8/26/92	B08S09	1.13	9.3	mg/kg	S	PRIMARY RESULT	TCD	Ba	1.05E+04	
U110	Barium	12/1/89	Core Composite 13	1.3	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	1.04E+04	
U110	Barium	12/1/89	Core 13 Segment 4	1.46	7	ug/g	I	PRIMARY	U110 Core Data	Ba	1.02E+04	
BX107	Ba	10/20/92	J926-AV		6.38	ugm/gm	G	Sludge/Composite	Braun	Ba	1.02E+04	
B110	Barium	4/1/90	Core Composite 1	1.36	7.30016	ug/g	I	DUPLICATE	B110 Core Data	Ba	9.93E+03	
BX107	Ba	10/20/92	J924-AV		6.07215	ugm/gm	G	Sludge/Composite	Braun	Ba	9.72E+03	
b202	Barium	6/7/91	B08SM2	1.02	9.2553	mg/kg	S	DUPLICATE RESULT	TCD	Ba	9.44E+03	
U110	Barium	12/1/89	Core Composite 5	1.04	9	ug/g	I	PRIMARY	U110 Core Data	Ba	9.36E+03	
A102	Ba				71.1	g-moles	S		TRAC	Ba	8.76E+03	
U110	Barium	12/1/89	Core 12 Segment 3	1	8	ug/g	I	DUPLICATE	U110 Core Data	Ba	8.00E+03	
BX111	Ba				10.2996	g-moles	S		TRAC	Ba	7.77E+03	
C112	Ba				2.22495	g-moles	S		TRAC	Ba	7.68E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SX112	Ba				31.1031	g-moles	S		TRAC	Ba	7.67E+03	
B107	Ba				6.82861	g-moles	S		TRAC	Ba	7.50E+03	
U110	Barium	12/1/89	Core Composite 5	1.04	7	ug/g	I	DUPLICATE	U110 Core Data	Ba	7.28E+03	
BX110	Ba				11.4997	g-moles	S		TRAC	Ba	7.06E+03	
U110	Barium	12/1/89	Core 12 Segment 3	1	7	ug/g	I	PRIMARY	U110 Core Data	Ba	7.00E+03	
SX107	Ba				45.1	g-moles	S		TRAC	Ba	6.87E+03	
BX101	Ba				3.38	g-moles	S		TRAC	Ba	6.77E+03	
SX111	Ba				68	g-moles	S		TRAC	Ba	6.08E+03	
SX114	Ba				84.8	g-moles	S		TRAC	Ba	5.58E+03	
U103	Ba				17.3993	g-moles	S		TRAC	Ba	5.48E+03	
SX110	Ba				96.3	g-moles	S		TRAC	Ba	5.03E+03	
C106	Ba	5/19/86		1.22	5	mg/L	I	Composite	RAW	Ba	5.00E+03	
TY105	Ba	9/2/85		1.53	3.18	uG/g	I	core composite	RAW	Ba	4.87E+03	
TX108	Ba				8.88991	g-moles	S		TRAC	Ba	4.80E+03	
S102	Ba				22.2	g-moles	S		TRAC	Ba	4.35E+03	
C103	Ba				108	g-moles	S		TRAC	Ba	4.28E+03	
S101	Ba				22.9983	g-moles	S		TRAC	Ba	4.21E+03	
SX113	Ba				31.6	g-moles	S		TRAC	Ba	4.07E+03	
SX103	Ba				113.1	g-moles	S		TRAC	Ba	4.02E+03	
BX106	Ba				108.2	g-moles	S		TRAC	Ba	3.63E+03	
S105	Ba				14.993	g-moles	S		TRAC	Ba	3.62E+03	
B109	Ba				6.18909	g-moles	S		TRAC	Ba	3.60E+03	
SX108	Ba				44	g-moles	S		TRAC	Ba	3.59E+03	
SX101	Ba				30.7	g-moles	S		TRAC	Ba	3.55E+03	
T104	Ba				1.28627	g-moles	S		TRAC	Ba	3.33E+03	
C110	Ba				0.551	g-moles	S		TRAC	Ba	3.33E+03	
B110	Barium	4/1/90	Core Composite 3	1.36	2.44427	ug/g	I	PRIMARY	B110 Core Data	Ba	3.32E+03	
SX109	Ba				35.1	g-moles	S		TRAC	Ba	3.26E+03	
U202	Ba				1.33999	g-moles	S		TRAC	Ba	3.19E+03	
U101	Ba				5.418	g-moles	S		TRAC	Ba	3.18E+03	
U203	Ba				1.18	g-moles	S		TRAC	Ba	2.95E+03	
S104	Ba				19.4996	g-moles	S		TRAC	Ba	2.80E+03	
SX104	Ba				31.4975	g-moles	S		TRAC	Ba	2.72E+03	
U201	Ba				1.26999	g-moles	S		TRAC	Ba	2.68E+03	
TX115	Ba				1.30738	g-moles	S		TRAC	Ba	2.63E+03	
s104	Barium	8/1/92	B08TF6	1.6	1.61	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.58E+03	
s104	Barium	8/1/92	B08TF6		1.61	mg/kg	S	DUPLICATE RESULT	TCD	Ba	2.58E+03	
SX115	Ba				13.9	g-moles	S		TRAC	Ba	2.40E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY112	Ba				11.4995	g-moles	S		TRAC	Ba	2.31E+03	
U111	Ba				11.392	g-moles	S		TRAC	Ba	2.31E+03	
S112	Ba				87.3995	g-moles	S		TRAC	Ba	2.28E+03	
C104	Ba				8.03	g-moles	S		TRAC	Ba	2.27E+03	
T106	Ba				4.4347	g-moles	S		TRAC	Ba	2.25E+03	
T103	Ba				0.67417	g-moles	S		TRAC	Ba	2.09E+03	
B105	Ba				5.64982	g-moles	S		TRAC	Ba	2.07E+03	
S109	Ba				36.5987	g-moles	S		TRAC	Ba	2.03E+03	
C108	Ba				3.34994	g-moles	S		TRAC	Ba	2.03E+03	
C102	Ba	1/21/88	E1XCOOXX		1.26	PPM	S	Raw Acid	RAW	Ba	2.02E+03	
TX101	Ba				16.2	g-moles	S		TRAC	Ba	1.96E+03	
U112	Ba				7.23	g-moles	S		TRAC	Ba	1.96E+03	
U108	Ba				6.47805	g-moles	S		TRAC	Ba	1.89E+03	
BX112	Ba				1.71898	g-moles	S		TRAC	Ba	1.89E+03	
B108	Ba				5.09999	g-moles	S		TRAC	Ba	1.85E+03	
BX102	Ba				2.66	g-moles	S		TRAC	Ba	1.72E+03	
C107	Ba				1.6617	g-moles	S		TRAC	Ba	1.67E+03	
TY101	Ba				2.74961	g-moles	S		TRAC	Ba	1.56E+03	
U110	Ba				4.8984	g-moles	S		TRAC	Ba	1.43E+03	
S103	Ba				28.5	g-moles	S		TRAC	Ba	1.43E+03	
S107	Ba				8.11	g-moles	S		TRAC	Ba	1.21E+03	
SX102	Ba				27.099	g-moles	S		TRAC	Ba	1.15E+03	
TY103	Ba	8/21/85		1.7	1.1	mg/L	I	Core composite	RAW	Ba	1.10E+03	
TX118	Ba				61.27	g-moles	S		TRAC	Ba	1.01E+03	
BX107	Ba	10/20/92	J927-AV		0.5527	ugm/gm	G	Sludge/Composite	Braun	Ba	8.84E+02	
BY109	Ba				9.08983	g-moles	S		TRAC	Ba	8.55E+02	
BX107	Ba	10/20/92	J926-AV		0.5311	ugm/gm	G	Sludge/Composite	Braun	Ba	8.50E+02	
TX113	Ba				2.63856	g-moles	S		TRAC	Ba	7.53E+02	
B110	Ba	6/21/90	89-0977		0.7	ug/ml	G	Acid Results	RAW	Ba	7.00E+02	
BY102	Ba				8.38	g-moles	S		TRAC	Ba	6.87E+02	
BY103	Ba				19.483	g-moles	S		TRAC	Ba	6.60E+02	
C102	Ba	2/1/91	2		0.4	mg/kg	S	water leach	RAW	Ba	6.40E+02	
BX105	Ba				8.95	g-moles	S		TRAC	Ba	6.12E+02	
BX107	Ba	10/20/92	J924-AV		0.37875	ugm/gm	G	Sludge/Composite	Braun	Ba	6.06E+02	
B110	Ba	6/21/90	90-0636		0.6	ug/ml	G	Acid Results	RAW	Ba	6.00E+02	
C102	Ba	2/1/91	1		0.36	mg/kg	S	water leach	RAW	Ba	5.76E+02	
B110	Barium	4/1/90	Core Composite 18	1.37	0.41282	ug/g	I	PRIMARY	B110 Core Data	Ba	5.66E+02	
C102	Ba				2.52	g-moles	S		TRAC	Ba	5.37E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Barium	8/1/92	B08TL4	1.6	0.329	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.26E+02	
s104	Barium	8/1/92	B08TL4		0.329	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.26E+02	
s104	Barium	8/1/92	B08TJ5	1.6	0.319	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.10E+02	
s104	Barium	8/1/92	B08TJ5		0.319	mg/kg	S	DUPLICATE RESULT	TCD	Ba	5.10E+02	
s104	Barium	8/1/92	B08TJ4	1.6	0.314	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.02E+02	
s104	Barium	8/1/92	B08TJ4		0.314	mg/kg	S	PRIMARY RESULT	TCD	Ba	5.02E+02	
TX116	Ba				3.42871	g-moles	S		TRAC	Ba	4.91E+02	
BX107	Ba	10/20/92	J925-AV		0.306	ugm/gm	G	Sludge/Composite	Braun	Ba	4.90E+02	
s104	Barium	8/1/92	B08TF7	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TL3	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TL4	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TF7		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TL3		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TL4		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.90E+02	
s104	Barium	8/1/92	B08TF7	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TL3	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TF6	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TF6		0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TF7		0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TL3		0.305	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.88E+02	
s104	Barium	8/1/92	B08TJ5	1.6	0.304	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.86E+02	
s104	Barium	8/1/92	B08TJ5		0.304	mg/kg	S	PRIMARY RESULT	TCD	Ba	4.86E+02	
TY105	Ba	9/1/85	61XCXXXX	1.53	0.486	mg/L	I	core composite	RAW	Ba	4.86E+02	
s104	Barium	8/1/92	B08TJ4	1.6	0.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.80E+02	
s104	Barium	8/1/92	B08TJ4		0.3	mg/kg	S	DUPLICATE RESULT	TCD	Ba	4.80E+02	
TX117	Ba				3.37695	g-moles	S		TRAC	Ba	4.80E+02	
T105	Ba				1.11	g-moles	S		TRAC	Ba	3.59E+02	
B110	Barium	4/1/90	Core Composite 18	1.37	0.23901	ug/g	I	DUPLICATE	B110 Core Data	Ba	3.27E+02	
B106	Ba				0.4811	g-moles	S		TRAC	Ba	3.02E+02	
B111	Ba				4.4	g-moles	S		TRAC	Ba	2.92E+02	
BX104	Ba				3.4	g-moles	S		TRAC	Ba	2.32E+02	
BX103	Ba				4.59	g-moles	S		TRAC	Ba	2.17E+02	
s104	Barium	8/1/92	B08TL3	1.6	0.145	ug/mL	S	PRIMARY RESULT	TCD	Ba	1.45E+02	
s104	Barium	8/1/92	B08TL3		0.145	ug/mL	S	PRIMARY RESULT	TCD	Ba	1.45E+02	
s104	Barium	8/1/92	B08TL3	1.6	0.142	ug/mL	S	DUPLICATE RESULT	TCD	Ba	1.42E+02	
s104	Barium	8/1/92	B08TL3		0.142	ug/mL	S	DUPLICATE RESULT	TCD	Ba	1.42E+02	
B104	Ba				0.84376	g-moles	S		TRAC	Ba	9.93E+01	
TY104	Ba	9/1/85	232SXXXX	1.85	0.08	mg/L	I	core composite	RAW	Ba	8.00E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Single-Shell Tank Solids [Sketch ES-VAL-CC04]
 ASA Value: 3.98E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Ba	6/21/90	90-2557		0.02	ug/ml	G	EP#1 Result	RAW	Ba	2.00E+01	
B110	Ba	6/21/90	90-2555		0.02	ug/ml	G	EP#1 Results	RAW	Ba	2.00E+01	
C102	Ba	2/1/91	2		0.02	ug/mL	S	water leach	RAW	Ba	2.00E+01	
C102	Ba	2/1/91	2		0.02	ug/mL	S	water leach	RAW	Ba	2.00E+01	
C102	Ba	2/1/91	1		0.018	ug/mL	S	water leach	RAW	Ba	1.80E+01	
C102	Ba	2/1/91	1		0.018	ug/mL	S	water leach	RAW	Ba	1.80E+01	
B110	Ba	6/21/90			0.01	ug/ml	G	EP#2 Results	RAW	Ba	1.00E+01	
T112	Ba				0.00559	g-moles	S		TRAC	Ba	3.19E-01	
T110	Ba				0.0018	g-moles	S		TRAC	Ba	1.23E-01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Beryllium Single-Shell Tank Liquids [Sketch ES-VAL-CC05]

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ASA Value: 3.03E+02 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 3.03E+02 ug/L												
c110	Beryllium	4/23/92	B08VM5	1	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VM5	1	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VH6	1.18	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VH6	1.18	0.3	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VM5	1	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VM5	1	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VP9	1.1	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VH6	1.18	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
c110	Beryllium	4/23/92	B08VH6	1.18	0.3	ug/mL	L	PRIMARY RESULT	TCD	Be	3.03E+02	*
C110	Be	11/1/91	1	1.1	0.15	ug/ml	L	core 38 seg. 4	RAW	Be	1.53E+02	~
C110	Be	11/1/91	2	1.1	0.15	ug/ml	L	core 38 seg. 4	RAW	Be	1.53E+02	
C110	Be	11/1/91	1	1.18	0.15	ug/ml	L	core 39 seg. 3	RAW	Be	1.53E+02	
C110	Be	11/1/91	2	1.18	0.15	ug/ml	L	core 39 seg. 3	RAW	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VH6	1.18	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VH6	1.18	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VP9	1.1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VH6	1.18	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.53E+02	
c110	Beryllium	4/23/92	B08VH6	1.18	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.53E+02	
C110	Be	11/1/91	1	1	0.15	ug/ml	L	core 37 seg. 3	RAW	Be	1.50E+02	
C110	Be	11/1/91	2	1	0.15	ug/ml	L	core 37 seg. 3	RAW	Be	1.50E+02	
c110	Beryllium	4/23/92	B08VM5	1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.50E+02	
c110	Beryllium	4/23/92	B08VM5	1	0.15	ug/mL	L	DUPLICATE RESULT	TCD	Be	1.50E+02	
c110	Beryllium	4/23/92	B08VM5	1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.50E+02	
c110	Beryllium	4/23/92	B08VM5	1	0.15	ug/mL	L	PRIMARY RESULT	TCD	Be	1.50E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Liquids [Sketch ES-VAL-CC05]
 ASA Value: 3.03E+02 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t104	Beryllium	8/26/92	B08TQ7	1.1	0.03	ug/mL	L	PRIMARY RESULT	TCD	Be	3.00E+01	
t107	Beryllium	3/1/93	B08V16	1.02	0.03	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.00E+01	
t107	Beryllium	3/1/93	B08V16	1.02	0.03	ug/mL	L	DUPLICATE RESULT	TCD	Be	3.00E+01	
t107	Beryllium	3/1/93	B08V16	1.02	0.03	ug/mL	L	PRIMARY RESULT	TCD	Be	3.00E+01	
t107	Beryllium	3/1/93	B08V16	1.02	0.03	ug/mL	L	PRIMARY RESULT	TCD	Be	3.00E+01	
t107	Beryllium	3/1/93	B08V58	1.2	0.03	ug/mL	L	PRIMARY RESULT	TCD	Be	3.00E+01	
Minimum Plot Limit: 1.00E+00 ug/L												
t107	Beryllium	3/1/93	B08VB5	1.1	0.08	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E-02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Beryllium	4/1/90	CORE 2 SEGMENT 4	1.28	34.58498	ug/g	I	DUPLICATE	B110 Core Data	Be	4.43E+04	14
ASA Value: 2.56E+04 ug/L												
U110	Be	12/15/89	89-070/1/2		16	ugm/gm	G	Sludge/Composite	Braun	Be	2.56E+04	*
c112	Beryllium	3/1/92	B08DN8	1.6	16	ug/g	S	DUPLICATE RESULT	TCD	Be	2.56E+04	*
c112	Beryllium	3/1/92	B08DN8	1.6	15.2	ug/g	S	PRIMARY RESULT	TCD	Be	2.43E+04	
U110	Beryllium	12/1/89	Core Composite 12	1.42	16	ug/g	I	PRIMARY	U110 Core Data	Be	2.27E+04	
t107	Beryllium	3/1/93	B08VD8	1.42	14.8	ug/g	S	PRIMARY RESULT	TCD	Be	2.10E+04	
t107	Beryllium	3/1/93	B08VD8	1.42	14.7	ug/g	S	DUPLICATE RESULT	TCD	Be	2.09E+04	
t107	Beryllium	3/1/93	B08VB9	1.19	14.8	ug/g	S	DUPLICATE RESULT	TCD	Be	1.76E+04	
t107	Beryllium	3/1/93	B08VB9	1.19	14.8	ug/g	S	PRIMARY RESULT	TCD	Be	1.76E+04	
t107	Beryllium	3/1/93	B08VB9	1.19	14.8	ug/g	S	PRIMARY RESULT	TCD	Be	1.76E+04	
U110	Beryllium	12/1/89	Core 7 Segment 3	1.53	11	ug/g	I	DUPLICATE	U110 Core Data	Be	1.68E+04	
c112	Beryllium	3/1/92	B08DN8	1.6	10.2	ug/g	S	PRIMARY RESULT	TCD	Be	1.63E+04	
c112	Beryllium	3/1/92	B08DN8	1.6	9.5	ug/g	S	DUPLICATE RESULT	TCD	Be	1.52E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.6	ug/g	S	PRIMARY RESULT	TCD	Be	1.52E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.5	ug/g	S	DUPLICATE RESULT	TCD	Be	1.50E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.4	ug/g	S	PRIMARY RESULT	TCD	Be	1.48E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.4	ug/g	S	PRIMARY RESULT	TCD	Be	1.48E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.3	ug/g	S	PRIMARY RESULT	TCD	Be	1.46E+04	
U110	Be	12/4/89	89-082/3/4		9	ugm/gm	G	Sludge/Composite	Braun	Be	1.44E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.2	ug/g	S	DUPLICATE RESULT	TCD	Be	1.44E+04	
c112	Beryllium	3/1/92	B08DY1	2	7.1	ug/g	S	DUPLICATE RESULT	TCD	Be	1.42E+04	
c112	Beryllium	3/1/92	B08DY1	2	6.9	ug/g	S	DUPLICATE RESULT	TCD	Be	1.38E+04	
c112	Beryllium	3/1/92	B08DY1	2	6.8	ug/g	S	PRIMARY RESULT	TCD	Be	1.36E+04	
c112	Beryllium	3/1/92	B08DY1	2	6.5	ug/g	S	PRIMARY RESULT	TCD	Be	1.30E+04	
c112	Beryllium	3/1/92	B08DY1	2	6.1	ug/g	S	DUPLICATE RESULT	TCD	Be	1.22E+04	
c112	Beryllium	3/1/92	B08DY1	2	5.9	ug/g	S	DUPLICATE RESULT	TCD	Be	1.18E+04	
U110	Beryllium	12/1/89	Core Composite 15	1.29	9	ug/g	I	PRIMARY	U110 Core Data	Be	1.16E+04	
U110	Beryllium	12/1/89	Core 7 Segment 1	1.78	6	ug/g	I	DUPLICATE	U110 Core Data	Be	1.07E+04	
U110	Beryllium	12/1/89	Core 12 Segment 2	1.77	6	ug/g	I	DUPLICATE	U110 Core Data	Be	1.06E+04	
U110	Beryllium	12/1/89	Core 12 Segment 2	1.77	6	ug/g	I	PRIMARY	U110 Core Data	Be	1.06E+04	
U110	Beryllium	12/1/89	Core Composite 6	1.54	6.5221965	ug/g	I	PRIMARY	U110 Core Data	Be	1.00E+04	
U110	Beryllium	12/1/89	Core Composite 8		6	ug/g	I	DUPLICATE	U110 Core Data	Be	9.60E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	7	ug/g	I	PRIMARY	U110 Core Data	Be	9.10E+03	
c112	Beryllium	3/1/92	B08DN8	1.6	5.5	ug/g	S	DUPLICATE RESULT	TCD	Be	8.80E+03	
c112	Beryllium	3/1/92	B08DN8	1.6	5.1	ug/g	S	DUPLICATE RESULT	TCD	Be	8.16E+03	
U110	Be	11/29/89	89-072		5	ugm/gm	G	Sludge	Braun	Be	8.00E+03	
c112	Beryllium	3/1/92	B08DN8	1.6	5	ug/g	S	PRIMARY RESULT	TCD	Be	8.00E+03	
c112	Beryllium	3/1/92	B08DN8	1.6	5	ug/g	S	PRIMARY RESULT	TCD	Be	8.00E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
U110	Beryllium	12/1/89	Core Composite 8		5	ug/g	I	PRIMARY	U110 Core Data	Be	8.00E+03	
U110	Beryllium	12/1/89	Core 15 Segment 4	1.31	6	ug/g	I	DUPLICATE	U110 Core Data	Be	7.86E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	6	ug/g	I	DUPLICATE	U110 Core Data	Be	7.80E+03	
U110	Beryllium	12/1/89	Core Composite 15	1.29	6	ug/g	I	DUPLICATE	U110 Core Data	Be	7.74E+03	
U110	Beryllium	12/1/89	Core Composite 6	1.54	5	ug/g	I	DUPLICATE	U110 Core Data	Be	7.70E+03	
U110	Beryllium	12/1/89	Core 12 Segment 4	1.48	5	ug/g	I	PRIMARY	U110 Core Data	Be	7.40E+03	
U110	Beryllium	12/1/89	Core Composite 12	1.42	5	ug/g	I	DUPLICATE	U110 Core Data	Be	7.10E+03	
U110	Beryllium	12/1/89	Core 13 Segment 3	1.14	6	ug/g	I	DUPLICATE	U110 Core Data	Be	6.84E+03	
U110	Beryllium	12/1/89	Core 13 Segment 3	1.14	6	ug/g	I	PRIMARY	U110 Core Data	Be	6.84E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	4	ug/g	I	DUPLICATE	U110 Core Data	Be	6.70E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	4	ug/g	I	PRIMARY	U110 Core Data	Be	6.70E+03	
B110	Beryllium	4/1/90	Core Composite 9	1.32	4.975335	ug/g	I	DUPLICATE	B110 Core Data	Be	6.57E+03	
U110	Beryllium	12/1/89	Core 15 Segment 3	1.3	5	ug/g	I	DUPLICATE	U110 Core Data	Be	6.50E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	3.08	ug/g	S	DUPLICATE RESULT	TCD	Be	6.19E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	3.08	ug/g	S	PRIMARY RESULT	TCD	Be	6.19E+03	
U110	Beryllium	12/1/89	Core Composite 6	1.54	4	ug/g	I	PRIMARY	U110 Core Data	Be	6.16E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.99	ug/g	S	DUPLICATE RESULT	TCD	Be	6.01E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.99	ug/g	S	DUPLICATE RESULT	TCD	Be	6.01E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.99	ug/g	S	PRIMARY RESULT	TCD	Be	6.01E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.98	ug/g	S	DUPLICATE RESULT	TCD	Be	5.99E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.97	ug/g	S	PRIMARY RESULT	TCD	Be	5.97E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	2.95	ug/g	S	PRIMARY RESULT	TCD	Be	5.93E+03	
U110	Beryllium	12/1/89	Core Composite 14	1.48	4	ug/g	I	DUPLICATE	U110 Core Data	Be	5.92E+03	
U110	Beryllium	12/1/89	Core Composite 14	1.48	4	ug/g	I	PRIMARY	U110 Core Data	Be	5.92E+03	
U110	Beryllium	12/1/89	Core Composite 5	1.04	5	ug/g	I	DUPLICATE	U110 Core Data	Be	5.20E+03	
U110	Beryllium	12/1/89	Core Composite 5	1.04	5	ug/g	I	PRIMARY	U110 Core Data	Be	5.20E+03	
U110	Be	11/10/89	89-043		3	ugm/gm	G	Sludge	Braun	Be	4.80E+03	
U110	Be	12/4/89	89-084		3	ugm/gm	G	Sludge	Braun	Be	4.80E+03	
C102	Be	2/1/91	2		3	mg/kg	S	Total	RAW	Be	4.80E+03	
U110	Beryllium	12/1/89	Core 6 Segment 2	1.59	3	ug/g	I	PRIMARY	U110 Core Data	Be	4.77E+03	
U110	Beryllium	12/1/89	Core Composite 5	1.04	4.3451273	ug/g	I	PRIMARY	U110 Core Data	Be	4.52E+03	
C102	Be	2/1/91	2		2.78	mg/kg	S	water leach	RAW	Be	4.45E+03	
U110	Beryllium	12/1/89	Core 12 Segment 4	1.48	3	ug/g	I	DUPLICATE	U110 Core Data	Be	4.44E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	3.2440352	ug/g	I	PRIMARY	U110 Core Data	Be	4.22E+03	
U110	Beryllium	12/1/89	Core Composite 15	1.29	3.248731	ug/g	I	PRIMARY	U110 Core Data	Be	4.19E+03	
U110	Beryllium	12/1/89	Core 15 Segment 4	1.31	3	ug/g	I	PRIMARY	U110 Core Data	Be	3.93E+03	
C102	Be	2/1/91	1		2.33	mg/kg	S	water leach	RAW	Be	3.73E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	2.1989529	ug/g	I	DUPLICATE	U110 Core Data	Be	3.68E+03	
U110	Beryllium	12/1/89	Core 7 Segment 1	1.78	2	ug/g	I	PRIMARY	U110 Core Data	Be	3.56E+03	

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F T H
4/18/05

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Beryllium	3/1/92	B08DM7	1.6	2.2	ug/g	S	DUPLICATE RESULT	TCD	Be	3.52E+03	
B110	Beryllium	4/1/90	Core Composite 3	1.36	2.444271	ug/g	I	DUPLICATE	B110 Core Data	Be	3.32E+03	
B110	Beryllium	4/1/90	Core Composite 3	1.36	2.444271	ug/g	I	PRIMARY	B110 Core Data	Be	3.32E+03	
B110	Beryllium	4/1/90	Core Composite 1	1.36	2.433386	ug/g	I	DUPLICATE	B110 Core Data	Be	3.31E+03	
B110	Beryllium	4/1/90	Core Composite 1	1.36	2.433386	ug/g	I	PRIMARY	B110 Core Data	Be	3.31E+03	
U110	Beryllium	12/1/89	Core Composite 5	1.04	3.1818182	ug/g	I	DUPLICATE	U110 Core Data	Be	3.31E+03	
B110	Beryllium	4/1/90	Core Composite 9	1.32	2.487667	ug/g	I	PRIMARY	B110 Core Data	Be	3.28E+03	
B110	Beryllium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	DUPLICATE	B110 Core Data	Be	3.28E+03	
B110	Beryllium	4/1/90	CORE 10 SEGMENT 5	1.36	2.358491	ug/g	I		B110 Core Data	Be	3.21E+03	
U110	Be	11/15/89	89-046		2	ugm/gm	G	Sludge	Braun	Be	3.20E+03	
U110	Be	11/15/89	89-048		2	ugm/gm	G	Sludge	Braun	Be	3.20E+03	
U110	Be	12/4/89	89-083		2	ugm/gm	G	Sludge	Braun	Be	3.20E+03	
C102	Be	2/1/91	1		2	mg/kg	S	Total	RAW	Be	3.20E+03	
c112	Beryllium	3/1/92	B08DM7	1.6	2	ug/g	S	DUPLICATE RESULT	TCD	Be	3.20E+03	
c112	Beryllium	3/1/92	B08DM7	1.6	2	ug/g	S	PRIMARY RESULT	TCD	Be	3.20E+03	
c112	Beryllium	3/1/92	B08DM7	1.6	2	ug/g	S	PRIMARY RESULT	TCD	Be	3.20E+03	
U110	Beryllium	12/1/89	Core Composite 14	1.48	2.1353482	ug/g	I	PRIMARY	U110 Core Data	Be	3.16E+03	
B110	Beryllium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	PRIMARY	B110 Core Data	Be	3.12E+03	
B110	Beryllium	4/1/90	CORE 2 SEGMENT 5	1.28	2.41336	ug/g	I	DUPLICATE	B110 Core Data	Be	3.09E+03	
U110	Beryllium	12/1/89	Core 7 Segment 3	1.53	2	ug/g	I	PRIMARY	U110 Core Data	Be	3.06E+03	
U110	Beryllium	12/1/89	Core Composite 6	1.54	1.9837847	ug/g	I	DUPLICATE	U110 Core Data	Be	3.06E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	2.99E+03	
B110	Beryllium	4/1/90	Core Composite 4	1.36	2.193463	ug/g	I	PRIMARY	B110 Core Data	Be	2.98E+03	
t105	Beryllium	5/28/93	B08WT4	2.01	1.47	ug/g	S	DUPLICATE RESULT	TCD	Be	2.95E+03	
U110	Beryllium	12/1/89	Core 13 Segment 4	1.46	2	ug/g	I	DUPLICATE	U110 Core Data	Be	2.92E+03	
U110	Beryllium	12/1/89	Core Composite 12	1.42	2	ug/g	I	DUPLICATE	U110 Core Data	Be	2.84E+03	
U110	Beryllium	12/1/89	Core Composite 12	1.42	2	ug/g	I	PRIMARY	U110 Core Data	Be	2.84E+03	
U110	Beryllium	12/1/89	Core 15 Segment 3	1.3	2	ug/g	I	PRIMARY	U110 Core Data	Be	2.60E+03	
t107	Beryllium	3/1/93	B08VR2	1.735	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	2.59E+03	
U110	Beryllium	12/1/89	Core Composite 15	1.29	2	ug/g	I	DUPLICATE	U110 Core Data	Be	2.58E+03	
t107	Beryllium	3/1/93	B08VR2	1.735	1.48	ug/g	S	DUPLICATE RESULT	TCD	Be	2.57E+03	
s104	Beryllium	8/1/92	B08TF6	1.6	1.5	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.40E+03	
s104	Beryllium	8/1/92	B08TL3	1.6	1.5	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.40E+03	
s104	Beryllium	8/1/92	B08TF6		1.5	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.40E+03	
s104	Beryllium	8/1/92	B08TL3		1.5	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.40E+03	
s104	Beryllium	8/1/92	B08TF6	1.6	1.5	mg/kg	S	PRIMARY RESULT	TCD	Be	2.40E+03	
s104	Beryllium	8/1/92	B08TF6		1.5	mg/kg	S	PRIMARY RESULT	TCD	Be	2.40E+03	
BX107	Be	10/20/92	J926-AV		1.4985	ugm/gm	G	Sludge/Composite	Braun	Be	2.40E+03	
BX107	Be	10/20/92	J927-AV		1.4985	ugm/gm	G	Sludge/Composite	Braun	Be	2.40E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX107	Be	10/20/92	J924-AV		1.497	ugm/gm	G	Sludge/Composite	Braun	Be	2.40E+03	
BX107	Be	10/20/92	J925-AV		1.494	ugm/gm	G	Sludge/Composite	Braun	Be	2.39E+03	
s104	Beryllium	8/1/92	B08TF7	1.6	1.49	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TL4	1.6	1.49	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TF7		1.49	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TL4		1.49	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TJ4	1.6	1.49	mg/kg	S	PRIMARY RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TL4	1.6	1.49	mg/kg	S	PRIMARY RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TJ4		1.49	mg/kg	S	PRIMARY RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TL4		1.49	mg/kg	S	PRIMARY RESULT	TCD	Be	2.38E+03	
s104	Beryllium	8/1/92	B08TJ4	1.6	1.48	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TJ4		1.48	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TF7	1.6	1.48	mg/kg	S	PRIMARY RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TL3	1.6	1.48	mg/kg	S	PRIMARY RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TF7		1.48	mg/kg	S	PRIMARY RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TL3		1.48	mg/kg	S	PRIMARY RESULT	TCD	Be	2.37E+03	
s104	Beryllium	8/1/92	B08TJ5	1.6	1.47	mg/kg	S	PRIMARY RESULT	TCD	Be	2.35E+03	
s104	Beryllium	8/1/92	B08TJ5		1.47	mg/kg	S	PRIMARY RESULT	TCD	Be	2.35E+03	
t107	Beryllium	3/1/93	B08V39	1.57	1.49	ug/g	S	DUPLICATE RESULT	TCD	Be	2.34E+03	
t107	Beryllium	3/1/93	B08V39	1.57	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	2.34E+03	
s104	Beryllium	8/1/92	B08TJ5	1.6	1.46	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.34E+03	
s104	Beryllium	8/1/92	B08TJ5		1.46	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.34E+03	
U110	Beryllium	12/1/89	Core Composite 12	1.42	1.5334483	ug/g	I	PRIMARY	U110 Core Data	Be	2.18E+03	
t107	Beryllium	3/1/93	B08VF0	1.38	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	2.06E+03	
t107	Beryllium	3/1/93	B08VF0	1.38	1.48	ug/g	S	DUPLICATE RESULT	TCD	Be	2.04E+03	
t107	Beryllium	3/1/93	B08VD9	1.305	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	1.94E+03	
t107	Beryllium	3/1/93	B08TZ2	1.29	1.5	ug/g	S	PRIMARY RESULT	TCD	Be	1.94E+03	
U110	Beryllium	12/1/89	Core 7 Segment 4	1.93	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.93E+03	
U110	Beryllium	12/1/89	Core 7 Segment 4	1.93	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.93E+03	
t107	Beryllium	3/1/93	B08TZ2	1.29	1.49	ug/g	S	DUPLICATE RESULT	TCD	Be	1.92E+03	
U110	Beryllium	12/1/89	Core 6 Segment 4	1.8	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.80E+03	
U110	Beryllium	12/1/89	Core 6 Segment 4	1.8	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.80E+03	
t107	Beryllium	3/1/93	B08VB9	1.19	1.5	ug/g	S	DUPLICATE RESULT	TCD	Be	1.79E+03	
t107	Beryllium	3/1/93	B08VB9	1.19	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	1.77E+03	
t107	Beryllium	3/1/93	B08V43	1.15	1.5	ug/g	S	DUPLICATE RESULT	TCD	Be	1.73E+03	
t107	Beryllium	3/1/93	B08V43	1.15	1.46	ug/g	S	PRIMARY RESULT	TCD	Be	1.68E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.68E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.68E+03	
U110	Beryllium	12/1/89	Core Composite 7	1.675	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.68E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Beryllium	3/1/93	B08V43	1.15	1.41	ug/g	S	PRIMARY RESULT	TCD	Be	1.62E+03	
U110	Beryllium	12/1/89	Core 14 Segment 4	1.62	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.62E+03	
U110	Beryllium	12/1/89	Core 14 Segment 4	1.62	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.62E+03	
t107	Beryllium	3/1/93	B08V44	1.1	1.46	ug/g	S	DUPLICATE RESULT	TCD	Be	1.61E+03	
U110	Beryllium	12/1/89	Core Composite 8		1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.60E+03	
U110	Beryllium	12/1/89	Core Composite 8		1	ug/g	I	PRIMARY	U110 Core Data	Be	1.60E+03	
t107	Beryllium	3/1/93	B08V43	1.15	1.39	ug/g	S	DUPLICATE RESULT	TCD	Be	1.60E+03	
t107	Beryllium	3/1/93	B08V44	1.1	1.45	ug/g	S	PRIMARY RESULT	TCD	Be	1.60E+03	
U110	Beryllium	12/1/89	Core 6 Segment 2	1.59	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.59E+03	
t107	Beryllium	3/1/93	B08V44	1.1	1.44	ug/g	S	DUPLICATE RESULT	TCD	Be	1.58E+03	
t107	Beryllium	3/1/93	B08V44	1.1	1.44	ug/g	S	PRIMARY RESULT	TCD	Be	1.58E+03	
U110	Beryllium	12/1/89	Core Composite 6	1.54	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.54E+03	
U110	Beryllium	12/1/89	Core Composite 6	1.54	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.54E+03	
U110	Beryllium	12/1/89	Core 14 Segment 1	1.5	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.50E+03	
U110	Beryllium	12/1/89	Core 14 Segment 1	1.5	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.50E+03	
U110	Beryllium	12/1/89	Core Composite 14	1.48	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.48E+03	
U110	Beryllium	12/1/89	Core 7 Segment 2	1.46	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.46E+03	
U110	Beryllium	12/1/89	Core 13 Segment 4	1.46	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.46E+03	
U110	Beryllium	12/1/89	Core 7 Segment 2	1.46	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.46E+03	
U110	Beryllium	12/1/89	Core Composite 12	1.42	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.42E+03	
t107	Beryllium	3/1/93	B08TZ3	0.95	1.49	ug/g	S	DUPLICATE RESULT	TCD	Be	1.42E+03	
t107	Beryllium	3/1/93	B08TZ3	0.95	1.49	ug/g	S	PRIMARY RESULT	TCD	Be	1.42E+03	
U110	Beryllium	12/1/89	Core 14 Segment 3	1.4	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.40E+03	
U110	Beryllium	12/1/89	Core 14 Segment 3	1.4	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.40E+03	
U110	Beryllium	12/1/89	Core 14 Segment 2	1.39	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.39E+03	
U110	Beryllium	12/1/89	Core 14 Segment 2	1.39	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.39E+03	
t105	Beryllium	5/28/93	B08WT2	0.89	1.48	mg/kg	S	DUPLICATE RESULT	TCD	Be	1.32E+03	
t105	Beryllium	5/28/93	B08WT2	0.89	1.48	mg/kg	S	PRIMARY RESULT	TCD	Be	1.32E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.30E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.30E+03	
U110	Beryllium	12/1/89	Core Composite 13	1.3	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.30E+03	
U110	Beryllium	12/1/89	Core Composite 15	1.29	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.29E+03	
U110	Beryllium	12/1/89	Core Composite 15	1.29	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.29E+03	
U110	Beryllium	12/1/89	Core 15 Segment 2	1.27	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.27E+03	
U110	Beryllium	12/1/89	Core 15 Segment 2	1.27	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.27E+03	
U110	Beryllium	12/1/89	Core 6 Segment 3	1.22	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.22E+03	
U110	Beryllium	12/1/89	Core 6 Segment 3	1.22	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.22E+03	
C106	Be	7/22/88			0.72	mg/kg	G	Sludge	RAW	Be	1.15E+03	
C106	Be	8/1/88	2		0.72	mg/kg	S		RAW	Be	1.15E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Beryllium	12/1/89	Core Composite 5	1.04	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.04E+03	
U110	Beryllium	12/1/89	Core Composite 5	1.04	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.04E+03	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.755857	ug/g	I	DUPLICATE	B110 Core Data	Be	1.04E+03	
U110	Beryllium	12/1/89	Core 12 Segment 3	1	1	ug/g	I	DUPLICATE	U110 Core Data	Be	1.00E+03	
U110	Beryllium	12/1/89	Core 12 Segment 3	1	1	ug/g	I	PRIMARY	U110 Core Data	Be	1.00E+03	
c112	Beryllium	3/1/92	B08DM7	1.6	0.6	ug/g	S	DUPLICATE RESULT	TCD	Be	9.60E+02	
c112	Beryllium	3/1/92	B08DM7	1.6	0.6	ug/g	S	DUPLICATE RESULT	TCD	Be	9.60E+02	
T111	Be	8/7/92	J-466		0.501	ugm/gm	G	Sludge/Composite	Braun	Be	8.02E+02	
T111	Be	8/7/92	J-470		0.499	ugm/gm	G	Sludge/Composite	Braun	Be	7.98E+02	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.567927	ug/g	I	PRIMARY	B110 Core Data	Be	7.78E+02	
s104	Beryllium	8/1/92	B08S50	1.6	0.447	mg/kg	S	PRIMARY RESULT	TCD	Be	7.15E+02	
s104	Beryllium	8/1/92	B08S50		0.447	mg/kg	S	PRIMARY RESULT	TCD	Be	7.15E+02	
s104	Beryllium	8/1/92	B08S46	1.6	0.436	mg/kg	S	PRIMARY RESULT	TCD	Be	6.98E+02	
s104	Beryllium	8/1/92	B08S46		0.436	mg/kg	S	PRIMARY RESULT	TCD	Be	6.98E+02	
s104	Beryllium	8/1/92	B08S50	1.6	0.387	mg/kg	S	DUPLICATE RESULT	TCD	Be	6.19E+02	
s104	Beryllium	8/1/92	B08S50		0.387	mg/kg	S	DUPLICATE RESULT	TCD	Be	6.19E+02	
b202	Beryllium	6/7/91	B08SP6	0.98	0.5	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
BX107	Be	10/20/92	J925-AV		0.306	ugm/gm	G	Sludge/Composite	Braun	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TF7	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TL3	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TL4	1.6	0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TF7		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TL3		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
s104	Beryllium	8/1/92	B08TL4		0.306	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.90E+02	
BX107	Be	10/20/92	J924-AV		0.3057	ugm/gm	G	Sludge/Composite	Braun	Be	4.89E+02	
BX107	Be	10/20/92	J926-AV		0.3057	ugm/gm	G	Sludge/Composite	Braun	Be	4.89E+02	
s104	Beryllium	8/1/92	B08TL3	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TL4	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TF6	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TF7	1.6	0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TF6		0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TF7		0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TL3		0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TL4		0.305	mg/kg	S	PRIMARY RESULT	TCD	Be	4.88E+02	
BX107	Be	10/20/92	J927-AV		0.3048	ugm/gm	G	Sludge/Composite	Braun	Be	4.88E+02	
s104	Beryllium	8/1/92	B08TJ5	1.6	0.304	mg/kg	S	PRIMARY RESULT	TCD	Be	4.86E+02	
s104	Beryllium	8/1/92	B08TJ5		0.304	mg/kg	S	PRIMARY RESULT	TCD	Be	4.86E+02	
s104	Beryllium	8/1/92	B08TF6	1.6	0.303	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.85E+02	
s104	Beryllium	8/1/92	B08TJ5	1.6	0.303	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.85E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
ASA Value: 2.56E+04 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
s104	Beryllium	8/1/92	B08TF6		0.303	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.85E+02
s104	Beryllium	8/1/92	B08TJ5		0.303	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.85E+02
s104	Beryllium	8/1/92	B08S48	1.6	0.3	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.80E+02
s104	Beryllium	8/1/92	B08TJ4	1.6	0.3	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.80E+02
s104	Beryllium	8/1/92	B08S48		0.3	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.80E+02
s104	Beryllium	8/1/92	B08TJ4		0.3	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.80E+02
s104	Beryllium	8/1/92	B08TJ4	1.6	0.3	mg/kg	S	PRIMARY RESULT	TCD	Be	4.80E+02
s104	Beryllium	8/1/92	B08TJ4		0.3	mg/kg	S	PRIMARY RESULT	TCD	Be	4.80E+02
t107	Beryllium	3/1/93	B08VFO	1.38	0.346	ug/g	S	DUPLICATE RESULT	TCD	Be	4.77E+02
s104	Beryllium	8/1/92	B08TF7	1.6	0.297	mg/kg	S	PRIMARY RESULT	TCD	Be	4.75E+02
s104	Beryllium	8/1/92	B08S50	1.6	0.297	mg/kg	S	PRIMARY RESULT	TCD	Be	4.75E+02
s104	Beryllium	8/1/92	B08S50		0.297	mg/kg	S	PRIMARY RESULT	TCD	Be	4.75E+02
s104	Beryllium	8/1/92	B08TF7		0.297	mg/kg	S	PRIMARY RESULT	TCD	Be	4.75E+02
s104	Beryllium	8/1/92	B08TJ5	1.6	0.296	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.74E+02
s104	Beryllium	8/1/92	B08TJ5		0.296	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.74E+02
s104	Beryllium	8/1/92	B08TL3	1.6	0.295	mg/kg	S	PRIMARY RESULT	TCD	Be	4.72E+02
s104	Beryllium	8/1/92	B08S48	1.6	0.295	mg/kg	S	PRIMARY RESULT	TCD	Be	4.72E+02
s104	Beryllium	8/1/92	B08S48		0.295	mg/kg	S	PRIMARY RESULT	TCD	Be	4.72E+02
s104	Beryllium	8/1/92	B08TL3		0.295	mg/kg	S	PRIMARY RESULT	TCD	Be	4.72E+02
s104	Beryllium	8/1/92	B08TJ5	1.6	0.294	mg/kg	S	PRIMARY RESULT	TCD	Be	4.70E+02
s104	Beryllium	8/1/92	B08TJ5		0.294	mg/kg	S	PRIMARY RESULT	TCD	Be	4.70E+02
s104	Beryllium	8/1/92	B08TF6	1.6	0.29	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08S48	1.6	0.29	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08S48		0.29	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08TF6		0.29	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08TJ4	1.6	0.29	mg/kg	S	PRIMARY RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08TL4	1.6	0.29	mg/kg	S	PRIMARY RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08TJ4		0.29	mg/kg	S	PRIMARY RESULT	TCD	Be	4.64E+02
s104	Beryllium	8/1/92	B08TL4		0.29	mg/kg	S	PRIMARY RESULT	TCD	Be	4.64E+02
BX107	Be	10/20/92	J925-AV		0.2885	ugm/gm	G	Sludge/Composite	Braun	Be	4.62E+02
s104	Beryllium	8/1/92	B08TL3	1.6	0.288	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.61E+02
s104	Beryllium	8/1/92	B08TL3		0.288	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.61E+02
s104	Beryllium	8/1/92	B08TF7	1.6	0.287	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08S46	1.6	0.287	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08S46		0.287	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08TF7		0.287	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08TF6	1.6	0.287	mg/kg	S	PRIMARY RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08S46	1.6	0.287	mg/kg	S	PRIMARY RESULT	TCD	Be	4.59E+02
s104	Beryllium	8/1/92	B08S46		0.287	mg/kg	S	PRIMARY RESULT	TCD	Be	4.59E+02

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Beryllium	8/1/92	B08TF6		0.287	mg/kg	S	PRIMARY RESULT	TCD	Be	4.59E+02	
BX107	Be	10/20/92	J926-AV		0.286	ugm/gm	G	Sludge/Composite	Braun	Be	4.58E+02	
s104	Beryllium	8/1/92	B08TJ4	1.6	0.286	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.58E+02	
s104	Beryllium	8/1/92	B08TJ4		0.286	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.58E+02	
s104	Beryllium	8/1/92	B08TL4	1.6	0.285	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.56E+02	
s104	Beryllium	8/1/92	B08S46	1.6	0.285	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.56E+02	
s104	Beryllium	8/1/92	B08S46		0.285	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.56E+02	
s104	Beryllium	8/1/92	B08TL4		0.285	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.56E+02	
s104	Beryllium	8/1/92	B08S50	1.6	0.282	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.51E+02	
s104	Beryllium	8/1/92	B08S50		0.282	mg/kg	S	DUPLICATE RESULT	TCD	Be	4.51E+02	
BX107	Be	10/20/92	J924-AV		0.28	ugm/gm	G	Sludge/Composite	Braun	Be	4.48E+02	
BX107	Be	10/20/92	J927-AV		0.277	ugm/gm	G	Sludge/Composite	Braun	Be	4.43E+02	
s104	Beryllium	8/1/92	B08S48	1.6	0.275	mg/kg	S	PRIMARY RESULT	TCD	Be	4.40E+02	
s104	Beryllium	8/1/92	B08S48		0.275	mg/kg	S	PRIMARY RESULT	TCD	Be	4.40E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.314	ug/g	S	PRIMARY RESULT	TCD	Be	4.33E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.3	ug/g	S	PRIMARY RESULT	TCD	Be	4.14E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.299	ug/g	S	DUPLICATE RESULT	TCD	Be	4.13E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.298	ug/g	S	PRIMARY RESULT	TCD	Be	4.11E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.296	ug/g	S	DUPLICATE RESULT	TCD	Be	4.08E+02	
t107	Beryllium	3/1/93	B08VF0	1.38	0.295	ug/g	S	PRIMARY RESULT	TCD	Be	4.07E+02	
t107	Beryllium	3/1/93	B08TZ2	1.29	0.3	ug/g	S	DUPLICATE RESULT	TCD	Be	3.87E+02	
t107	Beryllium	3/1/93	B08TZ2	1.29	0.299	ug/g	S	PRIMARY RESULT	TCD	Be	3.86E+02	
t107	Beryllium	3/1/93	B08TZ2	1.29	0.296	ug/g	S	PRIMARY RESULT	TCD	Be	3.82E+02	
t107	Beryllium	3/1/93	B08TZ2	1.29	0.292	ug/g	S	PRIMARY RESULT	TCD	Be	3.77E+02	
t107	Beryllium	3/1/93	B08TZ2	1.29	0.288	ug/g	S	DUPLICATE RESULT	TCD	Be	3.72E+02	
t107	Beryllium	3/1/93	B08VB9	1.19	0.299	ug/g	S	PRIMARY RESULT	TCD	Be	3.56E+02	
t107	Beryllium	3/1/93	B08VB9	1.19	0.297	ug/g	S	DUPLICATE RESULT	TCD	Be	3.53E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.299	ug/g	S	PRIMARY RESULT	TCD	Be	3.44E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.299	ug/g	S	PRIMARY RESULT	TCD	Be	3.44E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.299	ug/g	S	PRIMARY RESULT	TCD	Be	3.44E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.297	ug/g	S	DUPLICATE RESULT	TCD	Be	3.42E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.296	ug/g	S	DUPLICATE RESULT	TCD	Be	3.40E+02	
t107	Beryllium	3/1/93	B08V43	1.15	0.295	ug/g	S	DUPLICATE RESULT	TCD	Be	3.39E+02	
t104	Beryllium	8/26/92	B08S09	1.13	0.297	mg/kg	S	DUPLICATE RESULT	TCD	Be	3.36E+02	
t104	Beryllium	8/26/92	B08S09	1.13	0.297	mg/kg	S	DUPLICATE RESULT	TCD	Be	3.36E+02	
t104	Beryllium	8/26/92	B08S09	1.13	0.295	mg/kg	S	PRIMARY RESULT	TCD	Be	3.33E+02	
t104	Beryllium	8/26/92	B08S09	1.13	0.293	mg/kg	S	PRIMARY RESULT	TCD	Be	3.31E+02	
t105	Beryllium	5/28/93	B08WT2	0.89	0.308	ug/g	S	DUPLICATE RESULT	TCD	Be	2.74E+02	
t105	Beryllium	5/28/93	B08WT2	0.89	0.308	ug/g	S	PRIMARY RESULT	TCD	Be	2.74E+02	

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JFH
4/19/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Beryllium	3/1/93	B08V43	1.15	0.23	ug/g	S	PRIMARY RESULT	TCD	Be	2.65E+02	
b202	Beryllium	6/7/91	B08SP6	0.98	0.2273	mg/kg	S	PRIMARY RESULT	TCD	Be	2.23E+02	
T111	Be	8/7/92	J-408	1.09	0.2	ugm/gm	G	Sludge	Braun	Be	2.18E+02	
b202	Beryllium	6/7/91	B08SM2	1.02	0.2041	mg/kg	S	DUPLICATE RESULT	TCD	Be	2.08E+02	
b202	Beryllium	6/7/91	B08SM2	1.02	0.2	mg/kg	S	PRIMARY RESULT	TCD	Be	2.04E+02	
b202	Beryllium	6/7/91	B08SM2	1.02	0.2	mg/kg	S	PRIMARY RESULT	TCD	Be	2.04E+02	
b202	Beryllium	6/7/91	B08SM2	1.02	0.2	mg/kg	S	PRIMARY RESULT	TCD	Be	2.04E+02	
b202	Beryllium	6/7/91	B08SM2	1.02	0.2	mg/kg	S	PRIMARY RESULT	TCD	Be	2.04E+02	
t111	Beryllium	11/1/91	B08SV7	1.09	0.163	ug/g	S	PRIMARY RESULT	TCD	Be	1.78E+02	
T111	Be	8/7/92	J-398	0.88	0.2	ugm/gm	G	Sludge	Braun	Be	1.76E+02	
t111	Beryllium	11/1/91	B08SV7	1.09	0.157	ug/g	S	DUPLICATE RESULT	TCD	Be	1.71E+02	
t111	Beryllium	11/1/91	B08SV7	1.09	0.152	ug/g	S	PRIMARY RESULT	TCD	Be	1.66E+02	
t111	Beryllium	11/1/91	B08ST9	1.11	0.148	ug/g	S	DUPLICATE RESULT	TCD	Be	1.64E+02	
t111	Beryllium	11/1/91	B08ST9	1.11	0.134	ug/g	S	PRIMARY RESULT	TCD	Be	1.49E+02	
t111	Beryllium	11/1/91	B08ST9	1.11	0.132	ug/g	S	PRIMARY RESULT	TCD	Be	1.47E+02	
t111	Beryllium	11/1/91	B08ST5	0.88	0.161	ug/g	S	PRIMARY RESULT	TCD	Be	1.42E+02	
t111	Beryllium	11/1/91	B08SX5	1.06	0.132	ug/g	S	DUPLICATE RESULT	TCD	Be	1.40E+02	
t111	Beryllium	11/1/91	B08ST5	0.88	0.157	ug/g	S	DUPLICATE RESULT	TCD	Be	1.38E+02	
t111	Beryllium	11/1/91	B08SX5	1.06	0.13	ug/g	S	PRIMARY RESULT	TCD	Be	1.38E+02	
t111	Beryllium	11/1/91	B08ST9	1.11	0.121	ug/g	S	DUPLICATE RESULT	TCD	Be	1.34E+02	
t111	Beryllium	11/1/91	B08ST7	0.93	0.143	ug/g	S	PRIMARY RESULT	TCD	Be	1.33E+02	
t111	Beryllium	11/1/91	B08SV7	1.09	0.121	ug/g	S	DUPLICATE RESULT	TCD	Be	1.32E+02	
t111	Beryllium	11/1/91	B08SX5	1.06	0.121	ug/g	S	DUPLICATE RESULT	TCD	Be	1.28E+02	
C102	Be	2/1/91	2		0.08	mg/kg	S	water leach	RAW	Be	1.28E+02	
t111	Beryllium	11/1/91	B08ST7	0.93	0.131	ug/g	S	DUPLICATE RESULT	TCD	Be	1.22E+02	
t111	Beryllium	11/1/91	B08SX5	1.06	0.114	ug/g	S	PRIMARY RESULT	TCD	Be	1.21E+02	
T111	Be	8/7/92	J-404	1.11	0.1	ugm/gm	G	Sludge	Braun	Be	1.11E+02	
T111	Be	8/7/92	J-410	1.06	0.1	ugm/gm	G	Sludge	Braun	Be	1.06E+02	
t111	Beryllium	11/1/91	B08ST5	0.88	0.115	ug/g	S	DUPLICATE RESULT	TCD	Be	1.01E+02	
t111	Beryllium	11/1/91	B08ST5	0.88	0.111	ug/g	S	PRIMARY RESULT	TCD	Be	9.77E+01	
T111	Be	8/7/92	J-402	0.93	0.1	ugm/gm	G	Sludge	Braun	Be	9.30E+01	
b202	Beryllium	6/7/91	B08SM2	1.02	0.0847	mg/kg	S	PRIMARY RESULT	TCD	Be	8.64E+01	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.026975	ug/g	I	PRIMARY	B110 Core Data	Be	3.70E+01	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.023786	ug/g	I	PRIMARY	B110 Core Data	Be	3.26E+01	
C102	Be	2/1/91	1		0.02	mg/kg	S	water leach	RAW	Be	3.20E+01	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.02263	ug/g	I	DUPLICATE	B110 Core Data	Be	3.10E+01	
B110	Beryllium	4/1/90	Core Composite 18	1.37	0.017523	ug/g	I	DUPLICATE	B110 Core Data	Be	2.40E+01	
Minimum Plot Limit: 1.00E+01 ug/L												
C102	Be	2/1/91	2		0.004	ug/mL	S	water leach	RAW	Be	4.00E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Single-Shell Tank Solids [Sketch ES-VAL-CC06]
 ASA Value: 2.56E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
C102	Be	2/1/91	1		0.001	ug/mL	S	water leach	RAW	Be	1.00E+00	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]

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ASA Value: 1.13E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
AX104	Ca	8/3/77	JS#8-AL#D-129		0.67	M	P	Supernatant	RAW	Ca	2.69E+07	11
BX105	Ca	3/4/86			13	g/L	P	Supernate	Wastren	Ca	1.30E+07	13
AX104	Ca	8/3/77	JS#7-AL#D-78		0.268	M	P	Supernatant	RAW	Ca	1.07E+07	11
C102	Ca	4/1/90	RAT-C102-1		9400	ugm/gm	U	Unknown	Braun	Ca	1.03E+07	2
C106	Ca	4/1/90	RAT-C106-4A		1900	ugm/gm	U	Unknown	Braun	Ca	2.09E+06	2
C105	Ca	4/1/90	RAT-C105-4A		1600	ugm/gm	U	Unknown	Braun	Ca	1.76E+06	2
AX104	Ca	9/15/77	148JS#29-AL#2984		0.0317	M	P	Supernatant	RAW	Ca	1.27E+06	11
ASA Value: 1.13E+06 ug/L												
SX106	Ca	4/18/78	8301	1.37	0.0282	moles/l	P	Supernate	Braun	Ca	1.13E+06	*
SX106	Ca	4/18/78	8301	1.37	0.0282	M	P	Supernatant	RAW	Ca	1.13E+06	*
c112	Calcium	3/1/92	B08DZ5	1.4	433.1	ug/g	L	DUPLICATE RESULT	TCD	Ca	6.06E+05	
AX102	Ca	11/14/88	RAT-AX102-3		0.014	moles/l	P	Supernate	Braun	Ca	5.61E+05	
AX102	Ca	8/1/88			0.014	M	P	supernate	RAW	Ca	5.61E+05	
AX102	Ca	11/14/88			0.561	g/L	P	Supernate	Wastren	Ca	5.61E+05	
c112	Calcium	3/1/92	B08DZ5	1.4	394.1	ug/g	L	PRIMARY RESULT	TCD	Ca	5.52E+05	
BX105	Ca	3/3/86	81XD00XX	1.29	157	mg/l	L	Liquor	Braun	Ca	1.57E+05	
BX105	Calcuim	5/19/87	B1XDXXXX		157	mg/L	L	Drainable Liquor	RAW	Ca	1.57E+05	
BX105	Calcuim	5/19/87	B1XDXXXX		157	mg/L	L	Drainable Liquor	RAW	Ca	1.57E+05	
A103	Ca	4/3/86	B2XD00XX	1.48	152	mg/l	L	Liquor	Braun	Ca	1.52E+05	
A103	Calcuim	5/19/87	B1XD00XD		152	mg/L	L	Drainable Liquor	RAW	Ca	1.52E+05	
A103	Calcuim	5/19/87	B1XD00XD		152	mg/L	L	Drainable Liquor	RAW	Ca	1.52E+05	
A103	Ca	4/3/86			0.152	g/L	L	Drainable Liquid	Wastren	Ca	1.52E+05	
BX104	Ca	2/14/86	71XD00XX	1.31	144.1	mg/l	L	Liquor	Braun	Ca	1.44E+05	
A103	Ca	3/26/86	B1XD00XX	1.476	136	mg/l	L	Liquor	Braun	Ca	1.36E+05	
A103	Calcuim	5/19/87	B1XD00XD		136	mg/L	L	Drainable Liquor	RAW	Ca	1.36E+05	
A103	Calcuim	5/19/87	B1XD00XD		136	mg/L	L	Drainable Liquor	RAW	Ca	1.36E+05	
BX105	Ca	3/4/86	82XD00XX	1.29	130	mg/l	L	Liquor	Braun	Ca	1.30E+05	
BX105	Calcuim	5/19/87	B2XDXXXX		130	mg/L	L	Drainable Liquor	RAW	Ca	1.30E+05	
BX105	Calcuim	5/19/87	B2XDXXXX		130	mg/L	L	Drainable Liquor	RAW	Ca	1.30E+05	
BX104	Ca	2/26/86	72XD00XX	1.21	123	mg/l	L	Liquor	Braun	Ca	1.23E+05	
SX104	Ca	5/14/88		1.804	0.0023	M	L	Bottom Acid Leach	RAW	Ca	9.22E+04	
A106	Ca	3/13/86	A2XD00XX	1.36	90	mg/l	L	Liquor	Braun	Ca	9.00E+04	
A106	Calcuim	5/19/87	A2XDXXXX		90	mg/L	L	Drainable Liquor	RAW	Ca	9.00E+04	
A106	Calcuim	5/19/87	A2XDXXXX		90	mg/L	L	Drainable Liquor	RAW	Ca	9.00E+04	
A106	Ca	3/13/86			0.09	g/L	L	Drainable Liquid	Wastren	Ca	9.00E+04	
SX104	Ca	5/14/88			0.0802	g/L	L	Drainable Liquid	Wastren	Ca	8.02E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
 ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SX104	Ca	5/14/88	RAT-SX104-3	1.5	0.002	moles/l	P	Supernate	Braun	Ca	8.02E + 04	
T106	Ca	6/18/73	T-7422		0.002	moles/l	P	Supernate	Braun	Ca	8.02E + 04	
SX104	Ca	5/14/88		1.5	0.002	M	L		RAW	Ca	8.02E + 04	
T106	Ca	6/18/73	T-7422		0.002	M	I	clear, yellow	RAW	Ca	8.02E + 04	
SX104	Ca	5/14/88		1.482	0.0018	M	L	Top Acid Leach	RAW	Ca	7.21E + 04	
A106	Ca	3/11/86	A1XD00XX	1.35	68.6	mg/l	L	Liquor	Braun	Ca	6.86E + 04	
A106	Calcuim	5/19/87	A1XDXXXX		68.6	mg/L	L	Drainable Liquor	RAW	Ca	6.86E + 04	
A106	Calcuim	5/19/87	A1XDXXXX		68.6	mg/L	L	Drainable Liquor	RAW	Ca	6.86E + 04	
SX104	Ca	5/14/88		1.734	0.0017	M	L	Bottm Water Leach	RAW	Ca	6.81E + 04	
c112	Calcium	3/1/92	B08DZ5	1.4	43.7	ug/g	L	PRIMARY RESULT	TCD	Ca	6.12E + 04	
SX104	Ca	5/14/88		1.969	0.0015	M	L	Top Water Leach	RAW	Ca	6.01E + 04	
c112	Calcium	3/1/92	B08DZ5	1.4	36.8	ug/g	L	DUPLICATE RESULT	TCD	Ca	5.15E + 04	
A102	Ca	3/6/86	91XD00XX	1.52	39.3	mg/l	L	Liquor	Braun	Ca	3.93E + 04	
A102	Calcuim	5/19/87	91XDXXXX		39.3	mg/L	L	Drainable Liquor	RAW	Ca	3.93E + 04	
A102	Calcuim	5/19/87	91XDXXXX		39.3	mg/L	L	Drainable Liquor	RAW	Ca	3.93E + 04	
BY102	Ca	6/3/91	R-8091	1.41	26	ppm	P	Supernate	Braun	Ca	3.67E + 04	
BY102	Ca	6/3/91	R-8091	1.41	26	ppm	P	Supernatant	RAW	Ca	3.67E + 04	
BY109	Ca	6/3/91	R-8094	1.4	25	ppm	P	Supernate	Braun	Ca	3.50E + 04	
BY109	Ca	6/3/91	R-8094	1.4	25	ppm	P	Supernatant	RAW	Ca	3.50E + 04	
BY109	Ca	11/20/90	R8084	1.37	25	ppm	P	Supernatant	RAW	Ca	3.43E + 04	
BY109	Ca	6/3/91	R-8084	1.3	25	ppm	P	Supernate	Braun	Ca	3.25E + 04	
BY109	Ca	6/3/91	R-8084	1.3	25	ppm	P	Supernatant	RAW	Ca	3.25E + 04	
BY106	Ca	6/3/91	R-8093	1.47	22	ppm	P	Supernate	Braun	Ca	3.23E + 04	
BY106	Ca	6/3/91	R-8093	1.47	22	ppm	P	Supernatant	RAW	Ca	3.23E + 04	
A102	Ca	3/8/86	92XD00XX	1.51	30.7	mg/l	L	Liquor	Braun	Ca	3.07E + 04	
A102	Calcuim	5/19/87	92XDXXXX		30.7	mg/L	L	Drainable Liquor	RAW	Ca	3.07E + 04	
A102	Calcuim	5/19/87	92XDXXXX		30.7	mg/L	L	Drainable Liquor	RAW	Ca	3.07E + 04	
A102	Ca	3/14/89			0.0297	g/L	P	Supernate	Wastren	Ca	2.97E + 04	
A102	Ca	3/14/89	R-4656	1.57	0.00074	moles/l	P	Supernate	Braun	Ca	2.97E + 04	
A102	Ca	3/15/89		1.57	0.00074	M	L	Liquid	RAW	Ca	2.97E + 04	
BY106	Ca	6/3/91	R-8083	1.46	20	ppm	P	Supernate	Braun	Ca	2.92E + 04	
BY106	Ca	6/3/91	R-8083	1.46	20	ppm	P	Supernatant	RAW	Ca	2.92E + 04	
BY102	Ca	6/3/91	R-8081	1.42	20	ppm	P	Supernate	Braun	Ca	2.84E + 04	
BY102	Ca	6/3/91	R-8081	1.42	20	ppm	P	Supernatant	RAW	Ca	2.84E + 04	
c110	Calcium	4/23/92	B08VM5	1	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E + 04	
c110	Calcium	4/23/92	B08VM5	1	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E + 04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
 ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VH6	1.18	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VH6	1.18	27.5	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VM5	1	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VM5	1	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VP9	1.1	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VH6	1.18	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
c110	Calcium	4/23/92	B08VH6	1.18	27.5	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.75E+04	
BY105	Ca	6/3/91	R-8082	1.38	19	ppm	P	Supernatant	RAW	Ca	2.62E+04	
BY105	Ca	6/3/91	R-8082	1.38	19	ppm	P	Supernatant	Braun	Ca	2.62E+04	
T112	Ca	10/27/87	RAT-T112-1		0.000634	moles/l	P	Supernatant	Braun	Ca	2.54E+04	
T112	Ca	10/27/87			0.000634	M	P	Supernatant	RAW	Ca	2.54E+04	
T112	Ca	10/27/87			0.0254	g/L	P	Supernatant	Wastren	Ca	2.54E+04	
t104	Calcium	8/26/92	B08TQ7	1.1	23.3	ug/mL	L	PRIMARY RESULT	TCD	Ca	2.33E+04	
BY106	Ca	11/20/90	R8083		21	ppm	P	Supernatant	RAW	Ca	2.31E+04	
BY102	Ca	11/20/90	R-8081		20	PPM	P	Supernatant	RAW	Ca	2.20E+04	
BY105	Ca	11/20/90	R-8082		19	PPM	P	Supernatant	RAW	Ca	2.09E+04	
BY109	Ca	6/3/91			0.0179	g/L	P	Supernatant	Wastren	Ca	1.79E+04	
C103	Ca	5/14/86	F2XDOOXX	1.08	16.7	mg/l	L	Liquor	Braun	Ca	1.67E+04	
C103	Calcuim	5/19/87	F2XDXXXX		16.7	mg/L	L	Drainable Liquor	RAW	Ca	1.67E+04	
C103	Calcuim	5/19/87	F2XDXXXX		16.7	mg/L	L	Drainable Liquor	RAW	Ca	1.67E+04	
C103	Ca	5/7/86	F1XDOOXX	1.11	15.2	mg/l	L	Liquor	Braun	Ca	1.52E+04	
C103	Calcuim	5/19/87	F1XDXXXX		15.2	mg/L	L	Drainable Liquor	RAW	Ca	1.52E+04	
C103	Calcuim	5/19/87	F1XDXXXX		15.2	mg/L	L	Drainable Liquor	RAW	Ca	1.52E+04	
S111	Ca	8/25/78	1009-C	1.44	0.00037	moles/l	P	Supernatant	Braun	Ca	1.48E+04	
S111	Ca	8/25/78	1009-C	1.46	0.00037	moles/l	P	Supernatant	Braun	Ca	1.48E+04	
S111	Ca	8/25/78		1.46	0.00037	M	P	Supernatant	RAW	Ca	1.48E+04	
BY102	Ca	6/3/91			0.0141	g/L	P	Supernatant	Wastren	Ca	1.41E+04	
C110	Ca	11/1/91	2	1.1	13.9	ug/ml	L	core 38 seg. 4	RAW	Ca	1.39E+04	
C110	Ca	11/1/91	1	1.18	13.9	ug/ml	L	core 39 seg. 3	RAW	Ca	1.39E+04	
C110	Ca	11/1/91	2	1.18	13.9	ug/ml	L	core 39 seg. 3	RAW	Ca	1.39E+04	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.39E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
 ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VH6	1.18	13.9	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VH6	1.18	13.9	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VP9	1.1	13.9	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VH6	1.18	13.9	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.39E + 04	
c110	Calcium	4/23/92	B08VH6	1.18	13.9	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.39E + 04	
BY106	Ca	6/3/91			0.0137	g/L	L	Drainable Liquid	Wastren	Ca	1.37E + 04	
C110	Ca	11/1/91	1	1	13.6	ug/ml	L	core 37 seg. 3	RAW	Ca	1.36E + 04	
C110	Ca	11/1/91	2	1	13.6	ug/ml	L	core 37 seg. 3	RAW	Ca	1.36E + 04	
c110	Calcium	4/23/92	B08VM5	1	13.6	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.36E + 04	
c110	Calcium	4/23/92	B08VM5	1	13.6	ug/mL	L	DUPLICATE RESULT	TCD	Ca	1.36E + 04	
c110	Calcium	4/23/92	B08VM5	1	13.6	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.36E + 04	
c110	Calcium	4/23/92	B08VM5	1	13.6	ug/mL	L	PRIMARY RESULT	TCD	Ca	1.36E + 04	
BX104	Ca	2/26/86			0.0123	g/L	L	Drainable Liquid	Wastren	Ca	1.23E + 04	
C106	Ca	5/19/86	G1XD00XX	1.22	11.4	mg/l	L	Liquor	Braun	Ca	1.14E + 04	
C106	Calcuim	5/19/87	G1XDXXXX		11.4	mg/L	L	Drainable Liquor	RAW	Ca	1.14E + 04	
C106	Calcuim	5/19/87	G1XDXXXX		11.4	mg/L	L	Drainable Liquor	RAW	Ca	1.14E + 04	
BX111	Ca	3/16/90			0.0114	g/L	P	Supernate	Wastren	Ca	1.14E + 04	
BX111	Ca	3/16/90	R-6041	1.44	0.000284	moles/l	P	Supernate	Braun	Ca	1.14E + 04	
BX111	Ca	3/16/90	R6041	1.14	0.000284	M	P	Supernatant	RAW	Ca	1.14E + 04	
BX109	Ca	3/16/90			0.0105	g/L	P	Supernate	Wastren	Ca	1.05E + 04	
BX109	Ca	3/16/90	R-6039	1.34	0.000261	moles/l	P	Supernate	Braun	Ca	1.05E + 04	
BX109	Ca	3/16/90	R6039	1.34	2.61E-04	M	P	Supernatant	RAW	Ca	1.05E + 04	
Minimum Plot Limit: 1.00E + 04 ug/L												
BX106	Ca...	3/16/90			0.00994	g/L	P	Supernate	Wastren	Ca	9.94E + 03	
BX106	Ca	3/16/90	R-6037	1.33	0.000248	moles/l	P	Supernate	Braun	Ca	9.94E + 03	
BX106	Ca	3/16/90	R6037	1.33	0.000248	M	P	Supernatant	RAW	Ca	9.94E + 03	
BX110	Ca	3/16/90			0.00898	g/L	P	Supernate	Wastren	Ca	8.98E + 03	
BX110	Ca	3/16/90	R-6040	1.37	0.000224	moles/l	P	Supernate	Braun	Ca	8.98E + 03	
BX110	Ca	3/16/90	R6040	1.37	0.000224	M	P	Supernatant	RAW	Ca	8.98E + 03	
S111	Ca	8/25/78	RAT-S111-3	1.5	0.000194	moles/l	P	Supernate	Braun	Ca	7.78E + 03	
S111	Ca	8/25/78		1.5	0.000194	M	P	Supernate	RAW	Ca	7.78E + 03	
t107	Calcium	3/1/93	B08V58	1.2	7	ug/mL	L	PRIMARY RESULT	TCD	Ca	7.00E + 03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
 ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
T101	Ca	8/1/89	RAT-T101-1	1.2	0.00017	moles/l	P	Supernate	Braun	Ca	6.81E+03	
T107	Ca	8/1/89		1.2	0.00017	M	P	supernatant	RAW	Ca	6.81E+03	
T101	Ca	8/1/89			0.00681	g/L	P	Supernate	Wastren	Ca	6.81E+03	
T101	Ca	8/1/89		1.2	0.00017	mol/l	F	Filtrate	RAW	Ca	6.80E+03	
t107	Calcium	3/1/93	B08V16	1.02	4.87	ug/mL	L	PRIMARY RESULT	TCD	Ca	4.87E+03	
t107	Calcium	3/1/93	B08V16	1.02	4.87	ug/mL	L	PRIMARY RESULT	TCD	Ca	4.87E+03	
BY103	Ca	6/3/91	R-8088	1.45	3	ppm	P	Supernate	Braun	Ca	4.35E+03	
BY103	Ca	6/3/91	R-8088	1.45	3	ppm	P	Supernatant	RAW	Ca	4.35E+03	
C105	Ca	4/11/86	C1XD00XX	1.23	4.15	mg/l	L	Liquor	Braun	Ca	4.15E+03	
C105	Calcuim	5/19/87	C1XDXXXX		4.15	mg/L	L	Drainable Liquor	RAW	Ca	4.15E+03	
C105	Calcuim	5/19/87	C1XDXXXX		4.15	mg/L	L	Drainable Liquor	RAW	Ca	4.15E+03	
SX101	Ca	4/26/89			0.00401	g/L	L	Drainable Liquid	Wastren	Ca	4.01E+03	
SX101	Ca	4/26/89	R-4884	1.11	0.0001	moles/l	P	Supernate	Braun	Ca	4.01E+03	
SX101	Ca	2/22/90		1.11	0.0001	M	L	Liquid	RAW	Ca	4.01E+03	
t107	Calcium	3/1/93	B08V16	1.02	3.7	ug/mL	L	DUPLICATE RESULT	TCD	Ca	3.70E+03	
t107	Calcium	3/1/93	B08V16	1.02	3.7	ug/mL	L	DUPLICATE RESULT	TCD	Ca	3.70E+03	
BY103	Ca	11/14/90			3	ppm	P	Supernatant	RAW	Ca	3.30E+03	
C103	Ca	6/3/91	R-8108	1.07	3	ppm	P	Supernate	Braun	Ca	3.21E+03	
C103	Ca	4/27/90	8108	1.07	3	ppm	P	supernate	RAW	Ca	3.21E+03	
C103	Ca	6/3/91	R-8109	1.06	3	ppm	P	Supernate	Braun	Ca	3.18E+03	
t107	Calcium	3/1/93	B08V58	1.2	2.95	ug/mL	L	DUPLICATE RESULT	TCD	Ca	2.95E+03	
C103	Ca	6/3/91			0.0028	g/L	P	Supernate	Wastren	Ca	2.80E+03	
C110	Ca	6/3/91	R-8087	1.2	2	ppm	P	Supernate	Braun	Ca	2.40E+03	
C110	Ca	11/20/90	8087	1.2	2	ppm	p	supernate	RAW	Ca	2.40E+03	
C102	Ca	6/3/91	R-8089	1.15	2	ppm	P	Supernate	Braun	Ca	2.30E+03	
C102	Ca	11/20/90	8089	1.15	2	ppm	P	supernate	RAW	Ca	2.30E+03	
C107	Ca	6/3/91	R-8046	1.14	2	ppm	P	Supernate	Braun	Ca	2.28E+03	
C107	Ca	6/3/91	R8086	1.14	2	PPM	P	supernatant	RAW	Ca	2.28E+03	
BY103	Ca	6/3/91			0.00207	g/L	L	Drainable Liquid	Wastren	Ca	2.07E+03	
C107	Ca	6/3/91			0.00175	g/L	L	Drainable Liquid	Wastren	Ca	1.75E+03	
C102	Ca	6/3/91			0.00174	g/L	P	Supernate	Wastren	Ca	1.74E+03	
C110	Ca	6/3/91			0.00167	g/L	P	Supernate	Wastren	Ca	1.67E+03	
B202	Ca				2.58	g-moles	L		TRAC	Ca	1.03E+03	
C110	Ca	11/1/91	1	1.1	0.139	ug/ml	L	core 38 seg. 4	RAW	Ca	1.39E+02	
C106	Ca	4/14/87		1.22	11.4	uG/L	L		RAW	Ca	1.14E+01	
A103	Ca				0.235	g-moles	L		TRAC	Ca	4.88E+00	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Calcium	3/1/93	B08VB5	1.1	4.4	UG/L	L	DUPLICATE RESULT	TCD	Ca	4.40E + 00	
C105	Ca	5/19/87		1.23	4.15	ug/l	L		RAW	Ca	4.15E + 00	
t107	Calcium	3/1/93	B08VB5	1.1	3.48	UG/L	L	PRIMARY RESULT	TCD	Ca	3.48E + 00	
AX103	Ca				0.021	g-moles	L		TRAC	Ca	1.83E + 00	
TX108	Ca				0.00413	g-moles	L		TRAC	Ca	6.82E-01	
S110	Ca				0.0302	g-moles	L		TRAC	Ca	5.12E-01	
S111	Ca				0.0278	g-moles	L		TRAC	Ca	5.03E-01	
BY105	Ca				0.0227	g-moles	L		TRAC	Ca	4.19E-01	
B109	Ca				0.00244	g-moles	L		TRAC	Ca	3.92E-01	
B103	Ca				0.0021	g-moles	L		TRAC	Ca	2.48E-01	
B108	Ca				0.0000773	g-moles	L		TRAC	Ca	2.46E-01	
BX110	Ca				0.00224	g-moles	L		TRAC	Ca	1.65E-01	
B102	Ca				0.000609	g-moles	L		TRAC	Ca	1.34E-01	
BX111	Ca				0.00231	g-moles	L		TRAC	Ca	1.32E-01	
BY109	Ca				0.000957	g-moles	L		TRAC	Ca	1.25E-01	
BY101	Ca				0.00296	g-moles	L		TRAC	Ca	9.22E-02	
T101	Ca				0.00106	g-moles	L		TRAC	Ca	8.61E-02	
TX105	Ca				0.0037	g-moles	L		TRAC	Ca	6.88E-02	
SX105	Ca				0.00352	g-moles	L		TRAC	Ca	6.21E-02	
B106	Ca				0.000466	g-moles	L		TRAC	Ca	6.05E-02	
BY110	Ca				0.00267	g-moles	L		TRAC	Ca	5.60E-02	
U102	Ca				0.00199	g-moles	L		TRAC	Ca	5.56E-02	
BY104	Ca				0.00301	g-moles	L		TRAC	Ca	5.52E-02	
BY106	Ca				0.00299	g-moles	L		TRAC	Ca	5.28E-02	
BY111	Ca				0.00302	g-moles	L		TRAC	Ca	5.19E-02	
T103	Ca				0.000101	g-moles	L		TRAC	Ca	4.57E-02	
BY112	Ca				0.000555	g-moles	L		TRAC	Ca	4.51E-02	
BY108	Ca				0.00134	g-moles	L		TRAC	Ca	4.09E-02	
BY107	Ca				0.00109	g-moles	L		TRAC	Ca	3.71E-02	
S101	Ca				0.000783	g-moles	L		TRAC	Ca	3.61E-02	
S108	Ca				0.00181	g-moles	L		TRAC	Ca	3.17E-02	
SX104	Ca				0.000611	g-moles	L		TRAC	Ca	1.87E-02	
TY103	Ca				0.000233	g-moles	L		TRAC	Ca	1.63E-02	
SX106	Ca				0.00069	g-moles	L		TRAC	Ca	1.53E-02	
TY102	Ca				0.000081	g-moles	L		TRAC	Ca	1.36E-02	
T102	Ca				0.0000179	g-moles	L		TRAC	Ca	1.26E-02	

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JF KH
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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Liquids [Sketch ES-VAL-CC07]
 ASA Value: 1.13E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
S106	Ca				0.000422	g-moles	L		TRAC	Ca	7.88E-03	
TX109	Ca				0.000272	g-moles	L		TRAC	Ca	7.16E-03	
U107	Ca				0.000249	g-moles	L		TRAC	Ca	6.74E-03	
BX109	Ca				0.000123	g-moles	L		TRAC	Ca	6.46E-03	
C109	Ca				0.0000286	g-moles	L		TRAC	Ca	5.17E-03	
U111	Ca				0.0000635	g-moles	L		TRAC	Ca	5.08E-03	
C112	Ca				0.0000191	g-moles	L		TRAC	Ca	2.05E-03	
TX110	Ca				0.000092	g-moles	L		TRAC	Ca	1.88E-03	
C107	Ca				0.0000346	g-moles	L		TRAC	Ca	1.21E-03	
TX111	Ca				0.00000895	g-moles	L		TRAC	Ca	2.40E-04	
TX102	Ca				0.00000358	g-moles	L		TRAC	Ca	1.18E-04	
TY104	Ca				0.00000028	g-moles	L		TRAC	Ca	6.48E-05	
BX108	Ca				1.28E-07	g-moles	L		TRAC	Ca	6.34E-05	
TX103	Ca				2.21E-07	g-moles	L		TRAC	Ca	1.14E-05	
TX112	Ca				5.24E-07	g-moles	L		TRAC	Ca	8.28E-06	
C111	Ca				3.8E-09	g-moles	L		TRAC	Ca	7.36E-07	
A106	Ca				5.82E-11	g-moles	L		TRAC	Ca	5.79E-09	
AX101	Ca				3.95E-11	g-moles	L		TRAC	Ca	5.50E-10	
S107	Ca				1.82E-12	g-moles	L		TRAC	Ca	1.86E-10	
TX104	Ca				9.09E-13	g-moles	L		TRAC	Ca	1.41E-10	
C104	Ca				1.17E-12	g-moles	L		TRAC	Ca	6.60E-11	
B101	Ca				4.92E-13	g-moles	L		TRAC	Ca	5.55E-11	
S102	Ca				1.21E-12	g-moles	L		TRAC	Ca	3.45E-11	
SX101	Ca				1.96E-13	g-moles	L		TRAC	Ca	1.31E-11	
U103	Ca				1.67E-13	g-moles	L		TRAC	Ca	5.21E-12	
C110	Ca				3.96E-14	g-moles	L		TRAC	Ca	2.02E-12	
A105	Ca				2.13E-17	g-moles	L		TRAC	Ca	1.24E-14	
C108	Ca				3.4E-18	g-moles	L		TRAC	Ca	6.98E-15	
AX102	Ca				5.42E-20	g-moles	L		TRAC	Ca	1.08E-17	
BX101	Ca				1.72E-20	g-moles	L		TRAC	Ca	6.51E-18	
U106	Ca				5.42E-20	g-moles	L		TRAC	Ca	2.52E-18	
C102	Ca				5.29E-22	g-moles	L		TRAC	Ca	2.14E-20	
T108	Ca				6.07E-33	g-moles	L		TRAC	Ca	1.50E-30	
T109	Ca				5.91E-34	g-moles	L		TRAC	Ca	4.24E-32	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
C109	Ca				119000	g-moles	S		TRAC	Ca	3.49E+08	4
C112	Ca				118000	g-moles	S		TRAC	Ca	1.19E+08	4
B203	Ca	1/7/83	RAT-B203-1		5.92	wt. %	G	Sludge	Braun	Ca	9.47E+07	15
Preliminary ASA Value: 9.47E+07 ug/L												15
ASA Value: 5.06E+07 ug/L												
s104	Calcium	8/1/92	B08TL4	1.6	31600	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.06E+07	*
s104	Calcium	8/1/92	B08TL4		31600	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.06E+07	
c112	Calcium	3/1/92	B08DM7	1.6	30637.8	ug/g	S	PRIMARY RESULT	TCD	Ca	4.90E+07	
c112	Calcium	3/1/92	B08DM7	1.6	29141.6	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.66E+07	
c112	Calcium	3/1/92	B08DM6	1.5	30356.8	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.55E+07	
c112	Calcium	3/1/92	B08DM7	1.6	28197.1	ug/g	S	PRIMARY RESULT	TCD	Ca	4.51E+07	
C111	Ca				31600	g-moles	S		TRAC	Ca	4.45E+07	
SX103	Ca	10/10/77			44.1	g/L	G	Sludge	Wastren	Ca	4.41E+07	
SX103	Ca	10/10/77	1104	1.5	1.1	moles/l	S	Solids	Braun	Ca	4.41E+07	
SX103	Ca	10/10/77	1104	2	1.1	moles/l	S	Solids	Braun	Ca	4.41E+07	
SX103	Ca	10/10/77	1104		1.1	M	A	Salt	RAW	Ca	4.41E+07	
c112	Calcium	3/1/92	B08DM7	1.6	26701.8	ug/g	S	PRIMARY RESULT	TCD	Ca	4.27E+07	
c112	Calcium	3/1/92	B08DM7	1.6	26114.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.18E+07	
c112	Calcium	3/1/92	B08DM7	1.6	25982.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.16E+07	
c109	Calcium	9/1/92	B08T16	1.3	30182	ug/g	S	PRIMARY RESULT	TCD	Ca	3.92E+07	
c112	Calcium	3/1/92	B08DM6	1.5	26041.3	ug/g	S	PRIMARY RESULT	TCD	Ca	3.91E+07	
c112	Calcium	3/1/92	B08DM7	1.6	23936	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.83E+07	
c112	Calcium	3/1/92	B08DM7	1.6	23631.2	ug/g	S	PRIMARY RESULT	TCD	Ca	3.78E+07	
c112	Calcium	3/1/92	B08DN6	1.3	28896.5	ug/g	S	PRIMARY RESULT	TCD	Ca	3.76E+07	
c112	Calcium	3/1/92	B08DM7	1.6	23332.4	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.73E+07	
c109	Calcium	9/1/92	B08T16	1.3	28380	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.69E+07	
b202	Calcium	6/7/91	B08SP6	0.98	37550.629	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.68E+07	
c112	Calcium	3/1/92	B08DN6	1.3	28245.6	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.67E+07	
c112	Calcium	3/1/92	B08DN8	1.6	22411.3	ug/g	S	PRIMARY RESULT	TCD	Ca	3.59E+07	
c112	Calcium	3/1/92	B08DN6	1.3	27396.7	ug/g	S	PRIMARY RESULT	TCD	Ca	3.56E+07	
c112	Calcium	3/1/92	B08DM7	1.6	21935.7	ug/g	S	PRIMARY RESULT	TCD	Ca	3.51E+07	
c112	Calcium	3/1/92	B08DM7	1.6	21847.9	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.50E+07	
c112	Calcium	3/1/92	B08DM7	1.6	21786.8	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.49E+07	
c112	Calcium	3/1/92	B08DM7	1.6	21619.8	ug/g	S	PRIMARY RESULT	TCD	Ca	3.46E+07	
c109	Calcium	9/1/92	B08T15	1.2	28779	ug/g	S	PRIMARY RESULT	TCD	Ca	3.45E+07	
c109	Calcium	9/1/92	B08T15	1.2	27187	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.26E+07	
c112	Calcium	3/1/92	B08DN8	1.6	20289.3	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.25E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Calcium	3/1/92	B08DM7	1.6	19478.7	ug/g	S	PRIMARY RESULT	TCD	Ca	3.12E+07	
c112	Calcium	3/1/92	B08DY1	2	15309.8	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.06E+07	
BY110	Ca				14299.9973	g-moles	S		TRAC	Ca	3.02E+07	
c112	Calcium	3/1/92	B08DY1	2	14675.8	ug/g	S	PRIMARY RESULT	TCD	Ca	2.94E+07	
c112	Calcium	3/1/92	B08DY1	2	14380.9	ug/g	S	PRIMARY RESULT	TCD	Ca	2.88E+07	
c109	Calcium	9/1/92	B08T17	1.2	23694	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.84E+07	
c112	Calcium	3/1/92	B08DY1	2	13947.8	ug/g	S	PRIMARY RESULT	TCD	Ca	2.79E+07	
c112	Calcium	3/1/92	B08DY1	2	13584.1	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.72E+07	
c109	Calcium	9/1/92	B08T17	1.2	22196	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.66E+07	
c112	Calcium	3/1/92	B08DY1	2	13242	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.65E+07	
c109	Calcium	9/1/92	B08T17	1.2	21741	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.61E+07	
c109	Calcium	9/1/92	B08T17	1.2	21659	ug/g	S	PRIMARY RESULT	TCD	Ca	2.60E+07	
c109	Calcium	9/1/92	B08T17	1.2	21496	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.58E+07	
c109	Calcium	9/1/92	B08T17	1.2	21443	ug/g	S	PRIMARY RESULT	TCD	Ca	2.57E+07	
c109	Calcium	9/1/92	B08T17	1.2	21336	ug/g	S	PRIMARY RESULT	TCD	Ca	2.56E+07	
AX104	Ca	9/15/77			25.3	g/L	G	Sludge	Wastren	Ca	2.53E+07	
c109	Calcium	9/1/92	B08T17	1.2	21051	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.53E+07	
AX104	Ca	9/15/77	JS-25		0.63	moles/l	G	Sludge	Braun	Ca	2.52E+07	
AX104	Ca	9/15/77	148JS#25 AL#2385		0.63	M	S		RAW	Ca	2.52E+07	
b202	Calcium	6/7/91	B08SP5	0.87	29000	mg/kg	S	PRIMARY RESULT	TCD	Ca	2.52E+07	
c112	Calcium	3/1/92	B08DY1	2	12479.2	ug/g	S	PRIMARY RESULT	TCD	Ca	2.50E+07	
c112	Calcium	3/1/92	B08DY1	2	12422	ug/g	S	PRIMARY RESULT	TCD	Ca	2.48E+07	
c112	Calcium	3/1/92	B08DY1	2	12335.4	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.47E+07	
c112	Calcium	3/1/92	B08DY1	2	12161.8	ug/g	S	PRIMARY RESULT	TCD	Ca	2.43E+07	
c109	Calcium	9/1/92	B08T16	1.3	18552	ug/g	S	PRIMARY RESULT	TCD	Ca	2.41E+07	
c112	Calcium	3/1/92	B08DY1	2	11797.7	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.36E+07	
c112	Calcium	3/1/92	B08DY1	2	11641.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.33E+07	
c109	Calcium	9/1/92	B08T17	1.2	19372	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.32E+07	
c109	Calcium	9/1/92	B08T17	1.2	18864	ug/g	S	PRIMARY RESULT	TCD	Ca	2.26E+07	
c112	Calcium	3/1/92	B08DN6	1.3	17379.3	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.26E+07	
c109	Calcium	9/1/92	B08T17	1.2	18738	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.25E+07	
c109	Calcium	9/1/92	B08T16	1.3	17274	ug/g	S	PRIMARY RESULT	TCD	Ca	2.25E+07	
c109	Calcium	9/1/92	B08T16	1.3	17192	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.23E+07	
c109	Calcium	9/1/92	B08T16	1.3	17072	ug/g	S	PRIMARY RESULT	TCD	Ca	2.22E+07	
c109	Calcium	9/1/92	B08T17	1.2	18470	ug/g	S	PRIMARY RESULT	TCD	Ca	2.22E+07	
c109	Calcium	9/1/92	B08T16	1.3	16961	ug/g	S	PRIMARY RESULT	TCD	Ca	2.20E+07	
c109	Calcium	9/1/92	B08T15	1.2	18359	ug/g	S	PRIMARY RESULT	TCD	Ca	2.20E+07	
c109	Calcium	9/1/92	B08T17	1.2	18248	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.19E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	
c112	Calcium	3/1/92	B08DY1	2	10915.8	ug/g	S	PRIMARY RESULT	TCD	Ca	2.18E+07	
A106	Ca	10/5/77	JS-30	1.51	0.54	moles/l	G	Sludge	Braun	Ca	2.16E+07	
c109	Calcium	9/1/92	B08T16	1.3	16603	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.16E+07	
b202	Calcium	6/7/91	B08SP5	0.87	24600	mg/kg	S	PRIMARY RESULT	TCD	Ca	2.14E+07	
c112	Calcium	3/1/92	B08DY1	2	10673.4	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.13E+07	
c109	Calcium	9/1/92	B08T15	1.2	17736	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.13E+07	
c109	Calcium	9/1/92	B08T16	1.3	15626	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.03E+07	
c109	Calcium	9/1/92	B08T17	1.2	16856	ug/g	S	PRIMARY RESULT	TCD	Ca	2.02E+07	
b202	Calcium	6/7/91	B08SP5	0.87	23200	mg/kg	S	PRIMARY RESULT	TCD	Ca	2.02E+07	
b202	Calcium	6/7/91	B08SP5	0.87	22952.372	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.00E+07	
BY105	Ca				101999.977	g-moles	S		TRAC	Ca	1.99E+07	
c109	Calcium	9/1/92	B08T16	1.3	15260	ug/g	S	PRIMARY RESULT	TCD	Ca	1.98E+07	
c109	Calcium	9/1/92	B08T16	1.3	15230	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.98E+07	
b202	Calcium	6/7/91	B08SP5	0.87	22712.623	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.98E+07	
b202	Calcium	6/7/91	B08SP5	0.87	22700	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.97E+07	
t107	Calcium	3/1/93	B08VD8	1.42	13500	ug/g	S	PRIMARY RESULT	TCD	Ca	1.92E+07	
c109	Calcium	9/1/92	B08T17	1.2	15951	ug/g	S	PRIMARY RESULT	TCD	Ca	1.91E+07	
C106	Ca	5/19/86			11900	ug/g	I	Composite	RAW	Ca	1.90E+07	
C106	Ca	4/1/87	3		11900	mg/kg	S		RAW	Ca	1.90E+07	
c109	Calcium	9/1/92	B08T16	1.3	14193	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.85E+07	
b202	Calcium	6/7/91	B08SM4	1.35	13312.477	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.80E+07	
b202	Calcium	6/7/91	B08SM4	1.35	13300	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.80E+07	
C103	Ca	5/14/86	F2XC00XX	1.54	11500	ugm/gm	G	Sludge/Composite	Braun	Ca	1.77E+07	
C103	Ca	5/8/87	F1XCXXXX	1.54	11500	ug/g	I	Composite	RAW	Ca	1.77E+07	
c109	Calcium	9/1/92	B08T17	1.2	14646	ug/g	S	PRIMARY RESULT	TCD	Ca	1.76E+07	
C106	Ca	5/19/86	G1XC00XX	1.43	11900	ugm/gm	G	Sludge/Composite	Braun	Ca	1.70E+07	
C106	Ca	4/14/87		1.43	11900	ug/G	S		RAW	Ca	1.70E+07	
C106	Ca	4/17/87	G1xcxxxxR-1	1.43	11900	ug/g	I	Composite	RAW	Ca	1.70E+07	
b201	Calcium	8/1/91	B08F17	1.2	13837.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.66E+07	
A104	Ca	9/4/74	RAT-A104-1	1.64	0.41	moles/l	G	Sludge	Braun	Ca	1.64E+07	
A104	Ca	9/4/74		1.64	0.41	M	G	Sludge	RAW	Ca	1.64E+07	
A104	Ca	9/4/74			16.4	g/L	G	Sludge	Wastren	Ca	1.64E+07	
b201	Calcium	8/1/91	B08F17	1.2	13379.9	ug/g	S	PRIMARY RESULT	TCD	Ca	1.61E+07	
AX101	Ca	7/14/75	RAT-AX101-1	1.3	0.4	moles/l	G	Sludge	Braun	Ca	1.60E+07	
C107	Ca	8/2/77	T-8110-13		0.4	moles/l	G	Sludge	Braun	Ca	1.60E+07	
C107	Ca	8/2/77			0.4	M	S	Solids	RAW	Ca	1.60E+07	
b201	Calcium	8/1/91	B08F17	1.2	13117.9	ug/g	S	PRIMARY RESULT	TCD	Ca	1.57E+07	
U105	Ca	10/6/77	968		0.39	moles/l	S	Solids	Braun	Ca	1.56E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U105	Ca	10/6/77	968		0.39	M	S	Solid	RAW	Ca	1.56E+07	
b202	Calcium	6/7/91	B08SK0	0.93	16700	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.55E+07	
b201	Calcium	8/1/91	B08F17	1.2	12897.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.55E+07	
b202	Calcium	6/7/91	B08SP6	0.98	15400	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.51E+07	
b202	Calcium	6/7/91	B08SP6	0.98	15361.601	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.51E+07	
C102	Ca	2/1/91			9400	mg/kg	S	KOH Fusion	RAW	Ca	1.50E+07	
C102	Ca	2/1/91			9140	mg/kg	S	KOH Fusion	RAW	Ca	1.46E+07	
c112	Calcium	3/1/92	B08DN8	1.6	9113	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.46E+07	
c112	Calcium	3/1/92	B08DN8	1.6	8709.9	ug/g	S	PRIMARY RESULT	TCD	Ca	1.39E+07	
C104	Ca	4/15/86			13.7	g/L	G	Sludge	Wastren	Ca	1.37E+07	
C104	Ca	4/15/86	D1XCOOXX	1.21	11300	ugm/gm	G	Sludge/Composite	Braun	Ca	1.37E+07	
SX115	Ca	3/10/75	RAT-SX115-1	1.55	0.34	moles/l	G	Sludge	Braun	Ca	1.36E+07	
SX115	Ca	3/10/1975		0.55	0.34	mol/l	G	Sludge	RAW	Ca	1.36E+07	
SX115	Ca	3/10/75			13.6	g/L	G	Sludge	Wastren	Ca	1.36E+07	
b202	Calcium	6/7/91	B0BC06	0.99	13312.477	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.32E+07	
BX105	Ca	3/4/86			13	g/L	G	Sludge	Wastren	Ca	1.30E+07	
BX105	Calcium	3/4/86	82XCOOXX	1.79	7260	ugm/gm	G	Sludge/Composite	Braun	Ca	1.30E+07	
BX105	Ca	1/5/88	82xcxxxxR-8	1.79	7260	ug/g	I	Composite	RAW	Ca	1.30E+07	
c109	Calcium	9/1/92	B08T15	1.2	10681	ug/g	S	PRIMARY RESULT	TCD	Ca	1.28E+07	
c109	Calcium	9/1/92	B08T15	1.2	10214	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.23E+07	
C103	Ca	5/7/86	F1XCOOXX	1.13	10700	ugm/gm	G	Sludge/Composite	Braun	Ca	1.21E+07	
C103	Ca	5/8/87	F1XCXXXX	1.13	10700	ug/g	I	Composite	RAW	Ca	1.21E+07	
C105	Ca	4/11/86	C1XCOOXX	1.55	7790	ugm/gm	G	Sludge/Composite	Braun	Ca	1.21E+07	
C105	Ca	5/8/87		1.55	7790	ug/g	I	Composite	RAW	Ca	1.21E+07	
C107	Ca	9/26/77	T-510-28		0.3	moles/l	G	Sludge	Braun	Ca	1.20E+07	
C107	Ca	9/26/77	510 Bottom		0.3	M	S		RAW	Ca	1.20E+07	
BY104	Ca				66399.997	g-moles	S		TRAC	Ca	1.19E+07	
t107	Calcium	3/1/93	B08VD8	1.42	8300	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.18E+07	
A106	Ca	10/5/77	JS-31	1.51	0.29	moles/l	G	Sludge	Braun	Ca	1.16E+07	
b201	Calcium	8/1/91	B08RP3	1.2	9187	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.10E+07	
C107	Ca	8/2/77	T-8110-10		0.275	moles/l	G	Sludge	Braun	Ca	1.10E+07	
b201	Calcium	8/1/91	B08RP3	1.2	8983	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.08E+07	
b201	Calcium	8/1/91	B08RP3	1.2	8854	ug/g	S	PRIMARY RESULT	TCD	Ca	1.06E+07	
U110	Calcium	12/1/89	Core Composite 12	1.42	7313.29923	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.04E+07	
BY108	Ca				12699.9987	g-moles	S		TRAC	Ca	1.03E+07	
b201	Calcium	8/1/91	B08RP3	1.2	8590	ug/g	S	PRIMARY RESULT	TCD	Ca	1.03E+07	
BX104	Ca	1/5/88	72xcxxxxR-8	1.76	5800	ug/g	I	Composite	RAW	Ca	1.02E+07	
BX104	Calcium	2/26/86	72XCOOXX	1.673	5800	ugm/gm	G	Sludge/Composite	Braun	Ca	9.70E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX104	Ca	2/26/86			9.7	g/L	G	Sludge	Wastren	Ca	9.70E+06	
B101	Ca	1/5/76			9.62	g/L	G	Sludge	Wastren	Ca	9.62E+06	
AX103	Ca	9/19/74	RAT-AX103-1		0.24	moles/l	G	Sludge	Braun	Ca	9.62E+06	
B101	Ca	1/5/76	RAT-B101-1	1.59	0.24	moles/l	G	Sludge	Braun	Ca	9.62E+06	
AX103	Ca	9/19/74			0.24	M/L	G	Sludge	RAW	Ca	9.62E+06	
C102	Ca	2/1/91	1		5800	mg/kg	S	Total	RAW	Ca	9.28E+06	
C107	Ca	8/2/77	T-8110-14		0.23	moles/l	G	Sludge	Braun	Ca	9.22E+06	
A106	Calcium	3/13/86	A2XCOOXX	1.54	5780	ugm/gm	G	Sludge/Composite	Braun	Ca	8.90E+06	
A106	Ca	1/5/88	A2xcxxxx R-20	1.54	5780	ug/g	I	Composite Composite	RAW	Ca	8.90E+06	
A106	Ca	3/13/86			8.9	g/L	G	Sludge	Wastren	Ca	8.90E+06	
C104	Ca	8/23/77	9172-A		0.22	moles/l	G	Sludge	Braun	Ca	8.82E+06	
C104	Ca	8/23/77	9172		0.22	M	G	Sludge	RAW	Ca	8.82E+06	
b202	Calcium	6/7/91	B08SP6	0.98	8660	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.49E+06	
AX104	Ca				5089.99994	g-moles	S		TRAC	Ca	8.33E+06	
BX105	Calcium	3/3/86	81XCOOXX	1.58	5160	ugm/gm	G	Sludge/Composite	Braun	Ca	8.15E+06	
BX105	Ca	1/5/88	81xcxxxxR-4	1.58	5160	ug/g	I	Composite	RAW	Ca	8.15E+06	
b202	Calcium	6/7/91	B08SM2	1.02	7920	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.08E+06	
t107	Calcium	3/1/93	B08VB9	1.19	6780	ug/g	S	PRIMARY RESULT	TCD	Ca	8.07E+06	
t107	Calcium	3/1/93	B08VB9	1.19	6780	ug/g	S	PRIMARY RESULT	TCD	Ca	8.07E+06	
U110	Ca	12/15/89	89-070/1/2		5018	ugm/gm	G	Sludge/Composite	Braun	Ca	8.03E+06	
C106	Ca	10/10/74	RAT-C106-1		0.2	moles/l	G	Sludge	Braun	Ca	8.02E+06	
C106	Ca	1/6/75	RAT-C106-5		0.2	moles/l	G	Sludge	Braun	Ca	8.02E+06	
C107	Ca	9/26/77	T-510-33		0.2	moles/l	G	Sludge	Braun	Ca	8.02E+06	
U105	Ca	3/9/76	RAT-U105-1	1.52	0.2	moles/l	G	Sludge	Braun	Ca	8.02E+06	
C107	Ca	9/26/77	510 Top		0.2	M	S		RAW	Ca	8.02E+06	
C106	Ca	1/6/75			0.2	M	G	Sludge	RAW	Ca	8.02E+06	
U105	Ca	3/9/76		1.52	0.2	mol/l	G	Sludge	RAW	Ca	8.00E+06	
AX102	Ca	9/25/74	RAT-AX102-2	1.57	0.199	moles/l	G	Sludge	Braun	Ca	7.98E+06	
AX102	Ca	9/25/74		1.57	0.199	M/L	G	Sludge, soft	RAW	Ca	7.98E+06	
U110	Calcium	12/1/89	Core Composite 7	1.675	4748	ug/g	I	DUPLICATE	U110 Core Data	Ca	7.95E+06	
s104	Calcium	8/1/92	B08TL4	1.6	4820	mg/kg	S	DUPLICATE RESULT	TCD	Ca	7.71E+06	
s104	Calcium	8/1/92	B08TL4		4820	mg/kg	S	DUPLICATE RESULT	TCD	Ca	7.71E+06	
b202	Calcium	6/7/91	B08SM2	1.02	7370	mg/kg	S	PRIMARY RESULT	TCD	Ca	7.52E+06	
A106	Calcium	3/11/86	A1XCOOXX	1.56	4760	ugm/gm	G	Sludge/Composite	Braun	Ca	7.43E+06	
A106	Ca	1/5/88	A1xcxxxx R-17	1.56	4760	ug/g	I	Composite Composite	RAW	Ca	7.43E+06	
b202	Calcium	6/7/91	B08SM2	1.02	7070	mg/kg	S	PRIMARY RESULT	TCD	Ca	7.21E+06	
BX104	Calcium	2/14/86	71XCOOXX	1.85	3880	ugm/gm	G	Sludge/Composite	Braun	Ca	7.18E+06	
BX104	Ca	1/5/88	71xcxxxxR-1	1.85	3880	ug/g	I	Composite	RAW	Ca	7.18E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Calcium	12/1/89	Core Composite 12	1.42	5018.11024	ug/g	I	PRIMARY	U110 Core Data	Ca	7.13E+06	
U110	Ca	9/19/89	89-040/1		4383	ugm/gm	G	Sludge/Composite	Braun	Ca	7.01E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 3	1.3	5249.73179	ug/g	I	DUPLICATE	B110 Core Data	Ca	6.82E+06	
b202	Calcium	6/7/91	B08SP6	0.98	6960	mg/kg	S	PRIMARY RESULT	TCD	Ca	6.82E+06	
C104	Ca	8/23/77	9172-B		0.17	moles/l	G	Sludge	Braun	Ca	6.81E+06	
C104	Ca	8/23/77	9172		0.17	M	G	Sludge	RAW	Ca	6.81E+06	
S104	Ca	4/13/90			6.56	g/L	G	Sludge	Wastren	Ca	6.56E+06	
U110	Ca	11/30/89	89-073/4/5/6		4094	ugm/gm	G	Sludge/Composite	Braun	Ca	6.55E+06	
c109	Calcium	9/1/92	B08T17	1.2	5404	ug/g	S	PRIMARY RESULT	TCD	Ca	6.48E+06	
s104	Calcium	8/1/92	B08TL3	1.6	4050	mg/kg	S	PRIMARY RESULT	TCD	Ca	6.48E+06	
s104	Calcium	8/1/92	B08TL3		4050	mg/kg	S	PRIMARY RESULT	TCD	Ca	6.48E+06	
U110	Calcium	12/1/89	Core Composite 8		4046	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.47E+06	
C110	Ca	8/31/77	T-9501-34		0.16	moles/l	G	Sludge	Braun	Ca	6.41E+06	
T106	Ca	2/27/75	RAT-T106-1	1.29	0.16	moles/l	G	Sludge	Braun	Ca	6.41E+06	
C110	Ca	6/10/77	9501		0.16	M	G	Sludge	RAW	Ca	6.41E+06	
T106	Ca	2/27/75			6.41	g/L	G	Sludge	Wastren	Ca	6.41E+06	
T106	Ca	4/22/75		1.29	0.16	mol/l	G	sludge	RAW	Ca	6.40E+06	
t105	Calcium	5/28/93	B08WT2	0.89	7170	mg/kg	S	PRIMARY RESULT	TCD	Ca	6.38E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 3	1.3	4784.83729	ug/g	I	DUPLICATE	B110 Core Data	Ca	6.22E+06	
U110	Calcium	12/1/89	Core Composite 13	1.3	4673	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.07E+06	
t107	Calcium	3/1/93	B08TZ2	1.29	4690	ug/g	S	PRIMARY RESULT	TCD	Ca	6.05E+06	
t105	Calcium	5/28/93	B08WT4	2.01	3000	ug/g	S	DUPLICATE RESULT	TCD	Ca	6.03E+06	
S104	Ca	6/24/93	F-2177		3750	ugm/gm	G	Sludge	Braun	Ca	6.00E+06	
T104	Ca	1/26/93	T104-C45-C1		3740	ugm/gm	G	Sludge/Composite	Braun	Ca	5.98E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 3	1.3	4563.11837	ug/g	I	PRIMARY	B110 Core Data	Ca	5.93E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 3	1.3	4510.66873	ug/g	I	PRIMARY	B110 Core Data	Ca	5.86E+06	
BY106	Ca				15499.997	g-moles	S		TRAC	Ca	5.84E+06	
C107	Ca	9/26/77	T-510-23		0.14	moles/l	G	Sludge	Braun	Ca	5.61E+06	
C107	Ca	10/4/77	510 Middle		0.14	M	S		RAW	Ca	5.61E+06	
s104	Calcium	8/1/92	B08TL3	1.6	3450	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.52E+06	
s104	Calcium	8/1/92	B08TL3		3450	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.52E+06	
U110	Calcium	12/1/89	Core Composite 13	1.3	4094	ug/g	I	PRIMARY	U110 Core Data	Ca	5.32E+06	
A102	Ca	3/8/86	92XCOOXX	1.66	3170	ugm/gm	G	Sludge/Composite	Braun	Ca	5.26E+06	
A102	Ca	1/5/88	92xcooxx R-4	1.66	3170	ug/g	I	Composite Composite	RAW	Ca	5.26E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 1	1.24	4100.38964	ug/g	I	PRIMARY	B110 Core Data	Ca	5.08E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 1	1.24	3994.9576	ug/g	I	DUPLICATE	B110 Core Data	Ca	4.95E+06	
C102	Ca	12/1/86	RAT-C102-2		3040	ugm/gm	I	Composite	Braun	Ca	4.86E+06	
C102	Ca	6/17/87			3040	uG/G	S	Acid/PARR	RAW	Ca	4.86E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Calcium	3/1/92	B08DN8	1.6	3020.1	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.83E+06	
c112	Calcium	3/1/92	B08DN8	1.6	3000.7	ug/g	S	PRIMARY RESULT	TCD	Ca	4.80E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 2	1.3	3578.81137	ug/g	I	DUPLICATE	B110 Core Data	Ca	4.65E+06	
BY107	Ca				7049.99891	g-moles	S		TRAC	Ca	4.65E+06	
U110	Ca	12/3/89	89-077/8/9/0		2878	ugm/gm	G	Sludge/Composite	Braun	Ca	4.60E+06	
T105	Ca	10/26/93	RAT-T105-2B	2.01	2290	ugm/gm	G	Sludge/Composite	Braun	Ca	4.60E+06	
C108	Ca				26000	g-moles	S		TRAC	Ca	4.58E+06	
t111	Calcium	11/1/91	B08ST5	0.88	5190	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.57E+06	
U110	Calcium	12/1/89	Core Composite 5	1.04	4383.02887	ug/g	I	PRIMARY	U110 Core Data	Ca	4.56E+06	
T111	Ca	8/7/92	J-466		2760	ugm/gm	G	Sludge/Composite	Braun	Ca	4.42E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 2	1.3	3395.34884	ug/g	I	PRIMARY	B110 Core Data	Ca	4.41E+06	
C107	Ca	8/2/77	T-8110-12		0.11	moles/l	G	Sludge	Braun	Ca	4.41E+06	
C107	Ca	10/4/77	510 Middle		0.11	M	S		RAW	Ca	4.41E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2743.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.39E+06	
t111	Calcium	11/1/91	B08ST5	0.88	4880	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.29E+06	
U110	Calcium	12/1/89	Core Composite 14	1.48	2878	ug/g	I	PRIMARY	U110 Core Data	Ca	4.26E+06	
b202	Calcium	6/7/91	B08SP6	0.98	4290	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.20E+06	
t111	Calcium	11/1/91	B08ST5	0.88	4730	ug/g	S	PRIMARY RESULT	TCD	Ca	4.16E+06	
C102	Ca	7/10/86	E1XCOOXX	1.351	3040	ugm/gm	G	Sludge/Composite	Braun	Ca	4.11E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 2	1.3	3136.9509	ug/g	I	PRIMARY	B110 Core Data	Ca	4.08E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 2	1.3	3113.69509	ug/g	I	DUPLICATE	B110 Core Data	Ca	4.05E+06	
U110	Ca	11/17/89	89-050		2519	ugm/gm	G	Sludge/Composite	Braun	Ca	4.03E+06	
U110	Calcium	12/1/89	Core Composite 8		2519	ug/g	I	PRIMARY	U110 Core Data	Ca	4.03E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2510.2	ug/g	S	PRIMARY RESULT	TCD	Ca	4.02E+06	
U110	Calcium	12/1/89	Core Composite 7	1.675	2395	ug/g	I	PRIMARY	U110 Core Data	Ca	4.01E+06	
SX111	Ca	8/1/75			4.01	g/L	G	Sludge	Wastren	Ca	4.01E+06	
BX101	Ca	1/26/76			4.01	g/L	G	Sludge	Wastren	Ca	4.01E+06	
BX101	Ca	1/26/76	RAT-BX101-1	1.68	0.1	moles/l	G	Sludge	Braun	Ca	4.01E+06	
C107	Ca	8/2/77	T-8110-11		0.1	moles/l	G	Sludge	Braun	Ca	4.01E+06	
SX103	Ca	4/11/75	RAT-SX103-1A	1.53	0.1	moles/l	G	Sludge	Braun	Ca	4.01E+06	
SX111	Ca	8/1/75	RAT-SX111-1	1.21	0.1	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+06	
SX111	Ca	8/1/75	RAT-SX111-1	1.45	0.1	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+06	
U102	Ca	3/1/76	RAT-U102-1	1.27	0.1	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+06	
U102	Ca	3/1/76	RAT-U102-1	1.38	0.1	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+06	
U102	Ca	3/1/76	RAT-U102-1	1.6	0.1	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+06	
U105	Ca	3/14/77	RAT-U105-2	1.72	0.1	moles/l	G	Sludge	Braun	Ca	4.01E+06	
U102	Ca	3/1/76		1.6	0.1	M	S	Top Solid	RAW	Ca	4.01E+06	
C107	Ca	8/2/77			0.1	M	S	Solids	RAW	Ca	4.01E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
BX101	Ca	1/26/76		1.68	0.1	M	G	Sludge	RAW	Ca	4.01E+06	
U105	Ca	3/14/77		1.72	0.1	mol/l	G	Sludge	RAW	Ca	4.00E+06	
SX111	Ca	9/12/75		1.45	0.1	mol/l	G	Sludge	RAW	Ca	4.00E+06	
SX103	Ca	4/11/75		1.53	0.1	mol/l	G	Sludge	RAW	Ca	4.00E+06	
T111	Ca	8/7/92	J-398	0.88	4494.1	ugm/gm	G	Sludge	Braun	Ca	3.95E+06	
t111	Calcium	11/1/91	B08ST5	0.88	4490	ug/g	S	PRIMARY RESULT	TCD	Ca	3.95E+06	
c109	Calcium	9/1/92	B08T17	1.2	3215	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.86E+06	
U110	Ca	11/15/89	89-046/7/8/9		2395	ugm/gm	G	Sludge/Composite	Braun	Ca	3.83E+06	
B110	Calcium	4/1/90	Core Composite 1	1.36	2783.79365	ug/g	I	PRIMARY	B110 Core Data	Ca	3.79E+06	
S104	Ca	1/9/76	RAT-S104-1	1.21	0.09	moles/l	G	Sludge	Braun	Ca	3.61E+06	
S104	Ca	1/9/76	RAT-S104-2	1.21	0.09	moles/l	G	Sludge	Braun	Ca	3.61E+06	
S104	Ca	1/9/76		1.21	0.09	mol/l	G	Sludge	RAW	Ca	3.60E+06	
T111	Ca	8/7/92	J-470		2220	ugm/gm	G	Sludge/Composite	Braun	Ca	3.55E+06	
U103	Ca	8/15/77	8793		0.088	moles/l	A	Salts	Braun	Ca	3.53E+06	
U103	Ca	8/15/77			0.088	M	A	Salt	RAW	Ca	3.53E+06	
B110	Calcium	4/1/90	Core Composite 3	1.36	2566.48416	ug/g	I	PRIMARY	B110 Core Data	Ca	3.49E+06	
B110	Calcium	4/1/90	Core Composite 3	1.36	2539.59718	ug/g	I	DUPLICATE	B110 Core Data	Ca	3.45E+06	
BX107	Ca	10/20/92	J924-AV		2140	ugm/gm	G	Sludge/Composite	Braun	Ca	3.42E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2134.1	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.41E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2122.8	ug/g	S	PRIMARY RESULT	TCD	Ca	3.40E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2122.7	ug/g	S	PRIMARY RESULT	TCD	Ca	3.40E+06	
t107	Calcium	3/1/93	B08V39	1.57	2160	ug/g	S	PRIMARY RESULT	TCD	Ca	3.39E+06	
B110	Calcium	4/1/90	Core Composite 3	1.36	2473.60188	ug/g	I	PRIMARY	B110 Core Data	Ca	3.36E+06	
C106	Ca	4/1/90			3.33	g/L	G	Sludge	Wastren	Ca	3.33E+06	
c112	Calcium	3/1/92	B08DN8	1.6	2071.2	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.31E+06	
B110	Calcium	4/1/90	Core Composite 10	1.34	2445.16713	ug/g	I	DUPLICATE	B110 Core Data	Ca	3.28E+06	
B110	Calcium	4/1/90	Core Composite 3	1.36	2366.05397	ug/g	I	DUPLICATE	B110 Core Data	Ca	3.22E+06	
C110	Ca	8/31/77	T-9501-17		0.08	moles/l	G	Sludge	Braun	Ca	3.21E+06	
C110	Ca	6/10/77	9501		0.08	M	G	Sludge	RAW	Ca	3.21E+06	
C102	Ca	2/1/91	2		2000	mg/kg	S	Total	RAW	Ca	3.20E+06	
C102	Ca	2/1/91	2		2000	mg/kg	S	water leach	RAW	Ca	3.20E+06	
t107	Calcium	3/1/93	B08V39	1.57	2030	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.19E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1580	ug/g	S	PRIMARY RESULT	TCD	Ca	3.18E+06	
B110	Calcium	4/1/90	Core Composite 10	1.34	2366.92178	ug/g	I	PRIMARY	B110 Core Data	Ca	3.17E+06	
B110	Calcium	4/1/90	Core Composite 4	1.36	2300.94319	ug/g	I	PRIMARY	B110 Core Data	Ca	3.13E+06	
t107	Calcium	3/1/93	B08V44	1.1	2810	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.09E+06	
s104	Calcium	8/1/92	B08TJ5	1.6	1910	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.06E+06	
s104	Calcium	8/1/92	B08TJ5		1910	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.06E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
A102	Ca	3/6/86	91XCOOXX	1.52	2010	ugm/gm	G	Sludge/Composite	Braun	Ca	3.06E+06	
A102	Ca	2/24/87	91xcooxx R-4	1.52	2010	ug/g	I	Composite Composite	RAW	Ca	3.06E+06	
C106	Ca	4/1/90	1		1900	mg/kg	S		RAW	Ca	3.04E+06	
C106	Ca	2/1/91			1900	mg/kg	S	KOH Fusion	RAW	Ca	3.04E+06	
C102	Ca	2/1/91	1		1810	mg/kg	S	water leach	RAW	Ca	2.90E+06	
B110	Calcium	4/1/90	Core Composite 1	1.36	2117.04587	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.88E+06	
b202	Calcium	6/7/91	B0BC06	0.99	2880	mg/kg	S	PRIMARY RESULT	TCD	Ca	2.85E+06	
B110	Calcium	4/1/90	Core Composite 1	1.36	2082.97847	ug/g	I	PRIMARY	B110 Core Data	Ca	2.83E+06	
C105	Ca	4/1/90			2.8	g/L	G	Sludge	Wastren	Ca	2.80E+06	
B110	Calcium	4/1/90	Core Composite 10	1.34	2080.83723	ug/g	I	PRIMARY	B110 Core Data	Ca	2.79E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1380	ug/g	S	PRIMARY RESULT	TCD	Ca	2.77E+06	
U110	Calcium	12/1/89	Core Composite 5	1.04	2660.24702	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.77E+06	
B110	Calcium	4/1/90	Core Composite 10	1.34	2044.15972	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.74E+06	
B110	Calcium	4/1/90	Core Composite 4	1.36	1996.05177	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.71E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1340	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.69E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1320	ug/g	S	PRIMARY RESULT	TCD	Ca	2.65E+06	
t105	Calcium	5/28/93	B08WT2	0.89	2930	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.61E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1290	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.59E+06	
U110	Calcium	12/1/89	Core Composite 6	1.54	1669.04662	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.57E+06	
C105	Ca	2/1/91			1600	mg/kg	S	KOH Fusion	RAW	Ca	2.56E+06	
BY104	Ca	11/12/92			2.56	g/L	K	Saltcake	Wastren	Ca	2.56E+06	
B110	Calcium	4/1/90	Core Composite 4	1.36	1879.7982	ug/g	I	PRIMARY	B110 Core Data	Ca	2.56E+06	
U110	Calcium	12/1/89	Core 13 Segment 3	1.14	2239	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.55E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 3	1.29	1975.79952	ug/g	I	PRIMARY	B110 Core Data	Ca	2.55E+06	
B110	Calcium	4/1/90	Core Composite 2	1.33	1905.57992	ug/g	I	PRIMARY	B110 Core Data	Ca	2.53E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 2	1.3	1939.91648	ug/g	I	PRIMARY	B110 Core Data	Ca	2.52E+06	
A103	Calcium	4/3/86	B2XCOOXX	1.35	1830	ugm/gm	G	Sludge/Composite	Braun	Ca	2.47E+06	
A103	Ca	3/3/87	B2xcxxxx R-12	1.35	1830	ug/g	I	Composite Composite	RAW	Ca	2.47E+06	
A103	Ca	4/3/86			2.47	g/L	K	Saltcake	Wastren	Ca	2.47E+06	
B110	Calcium	4/1/90	Core Composite 1	1.36	1815.306	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.47E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 3	1.3	1894.34889	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.46E+06	
B110	Calcium	4/1/90	Core Composite 18	1.37	1793.07538	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.46E+06	
B110	Calcium	4/1/90	Core Composite 4	1.36	1800.83352	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.45E+06	
BY104	Ca	2/6/76	RAT-BY104-1	1.61	0.06	moles/l	G	Sludge	Braun	Ca	2.40E+06	
BY104	Ca	3/16/76			0.06	moles/L	G	sludge	RAW	Ca	2.40E+06	
BY104	Ca	10/26/92	riser 5		1500	ug/g	S	acid digestion	RAW	Ca	2.40E+06	
BX101	Ca				4080	g-moles	S		TRAC	Ca	2.38E+06	
C106	Ca	7/22/88			1480	mg/kg	G	Sludge	RAW	Ca	2.37E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	Ca	8/1/88	2		1480	mg/kg	S		RAW	Ca	2.37E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1170	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.35E+06	
BY104	Ca	11/12/92	R-1773		1460	ugm/gm	T	Crust	Braun	Ca	2.34E+06	
BY104	Ca	10/26/92	riser 5		1460	ug/g	S	fusion digestion	RAW	Ca	2.34E+06	
B110	Calcium	4/1/90	Core Composite 18	1.37	1697.71208	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.33E+06	
C107	Ca	9/26/77	T-510-32		0.058	moles/l	G	Sludge	Braun	Ca	2.32E+06	
C107	Ca	9/26/77	510 Top		0.058	M	S		RAW	Ca	2.32E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 3	1.3	1778.86978	ug/g	I	PRIMARY	B110 Core Data	Ca	2.31E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 3	1.3	1774.35639	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.31E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 2	1.24	1837.75269	ug/g	I	PRIMARY	B110 Core Data	Ca	2.28E+06	
B110	Calcium	4/1/90	Core Composite 18	1.37	1660.41464	ug/g	I	PRIMARY	B110 Core Data	Ca	2.27E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 2	1.3	1748.61916	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.27E+06	
t107	Calcium	3/1/93	B08V44	1.1	2060	ug/g	S	PRIMARY RESULT	TCD	Ca	2.27E+06	
t105	Calcium	5/28/93	B08WT4	2.01	1120	ug/g	S	PRIMARY RESULT	TCD	Ca	2.25E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 3	1.3	1708.73296	ug/g	I	PRIMARY	B110 Core Data	Ca	2.22E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 3	1.3	1706.20899	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.22E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 2	1.3	1705.5099	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.22E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 3	1.3	1695.3317	ug/g	I	PRIMARY	B110 Core Data	Ca	2.20E+06	
B110	Calcium	4/1/90	Core Composite 2	1.33	1649.78163	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.19E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 3	1.3	1658.25341	ug/g	I	PRIMARY	B110 Core Data	Ca	2.16E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 1	1.23	1749.14568	ug/g	I		B110 Core Data	Ca	2.15E+06	
A103	Calcium	3/26/86	B1XCOOXX	1.34	1600	ugm/gm	G	Sludge/Composite	Braun	Ca	2.14E+06	
A103	Ca	2/24/87	B1xcooxx R-17	1.34	1600	ug/g	I	Composite Composite	RAW	Ca	2.14E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 3	1.3	1646.19165	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.14E+06	
AX101	Ca				808	g-moles	S		TRAC	Ca	2.13E+06	
B110	Calcium	4/1/90	Core Composite 18	1.37	1549.15063	ug/g	I	PRIMARY	B110 Core Data	Ca	2.12E+06	
B110	Calcium	4/1/90	Core Composite 9	1.32	1602.0578	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.11E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 2	1.24	1688.10712	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.09E+06	
B110	Calcium	4/1/90	Core Composite 2	1.33	1546.52361	ug/g	I	PRIMARY	B110 Core Data	Ca	2.06E+06	
B110	Calcium	4/1/90	Core Composite 9	1.32	1547.32912	ug/g	I	PRIMARY	B110 Core Data	Ca	2.04E+06	
B110	Calcium	4/1/90	Core Composite 2	1.33	1527.74942	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.03E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 5	1.3	1556.00428	ug/g	I		B110 Core Data	Ca	2.02E+06	
U110	Calcium	12/1/89	Core Composite 14	1.48	1361	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.01E+06	
U110	Calcium	12/1/89	Core 6 Segment 4	1.8	1113	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.00E+06	
B110	Calcium	4/1/90	Core Composite 9	1.32	1517.47711	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.00E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 5	1.3	1540.08439	ug/g	I	PRIMARY	B110 Core Data	Ca	2.00E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 3	1.29	1538.91466	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.99E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 5	1.3	1521.33146	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.98E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Calcium	4/1/90	CORE 3 SEGMENT 5	1.3	1514.29911	ug/g	I	PRIMARY	B110 Core Data	Ca	1.97E+06	
B110	Calcium	4/1/90	Core Composite 9	1.32	1490.11277	ug/g	I	PRIMARY	B110 Core Data	Ca	1.97E+06	
t107	Calcium	3/1/93	B08T22	1.29	1520	ug/g	S	PRIMARY RESULT	TCD	Ca	1.96E+06	
B110	Calcium	4/1/90	CORE 10 SEGMENT 5	1.36	1429.24528	ug/g	I		B110 Core Data	Ca	1.94E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 4	1.3	1489.14941	ug/g	I		B110 Core Data	Ca	1.94E+06	
U110	Ca	11/10/89	89-043/4/5		1206	ugm/gm	G	Sludge/Composite	Braun	Ca	1.93E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 3	1.29	1489.82647	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.92E+06	
U110	Calcium	12/1/89	Core Composite 15	1.29	1480.72619	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.91E+06	
t107	Calcium	3/1/93	B08T22	1.29	1470	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.90E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 1	1.23	1541.57702	ug/g	I		B110 Core Data	Ca	1.90E+06	
B110	Calcium	4/1/90	CORE 18 SEGMENT 3	1.31	1443.6576	ug/g	I		B110 Core Data	Ca	1.89E+06	
B110	Calcium	4/1/90	CORE 3 SEGMENT 5	1.3	1446.31974	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.88E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 5	1.3	1444.35206	ug/g	I		B110 Core Data	Ca	1.88E+06	
BX107	Ca	10/20/92	J925-AV		1168	ugm/gm	G	Sludge/Composite	Braun	Ca	1.87E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 2	1.24	1506.95721	ug/g	I	PRIMARY	B110 Core Data	Ca	1.87E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 4	1.3	1429.28411	ug/g	I		B110 Core Data	Ca	1.86E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 4	1.3	1429.28411	ug/g	I		B110 Core Data	Ca	1.86E+06	
U110	Calcium	12/1/89	Core Composite 6	1.54	1206.29371	ug/g	I	PRIMARY	U110 Core Data	Ca	1.86E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 2	1.24	1496.45576	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.86E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 1	1.23	1506.13846	ug/g	I		B110 Core Data	Ca	1.85E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 1	1.23	1503.60714	ug/g	I		B110 Core Data	Ca	1.85E+06	
t107	Calcium	3/1/93	B08VR2	1.735	1060	ug/g	S	PRIMARY RESULT	TCD	Ca	1.84E+06	
B110	Calcium	4/1/90	CORE 10 SEGMENT 5	1.36	1349.0566	ug/g	I		B110 Core Data	Ca	1.83E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 4	1.3	1401.84585	ug/g	I		B110 Core Data	Ca	1.82E+06	
b201	Calcium	8/1/91	B08F21	1.3	1390.7	ug/g	S	PRIMARY RESULT	TCD	Ca	1.81E+06	
t107	Calcium	3/1/93	B08VR2	1.735	1040	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.80E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 3	1.29	1394.10451	ug/g	I	PRIMARY	B110 Core Data	Ca	1.80E+06	
B110	Calcium	4/1/90	CORE 18 SEGMENT 3	1.31	1364.14461	ug/g	I		B110 Core Data	Ca	1.79E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 2	1.3	1371.41318	ug/g	I	PRIMARY	B110 Core Data	Ca	1.78E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 5	1.3	1356.45564	ug/g	I		B110 Core Data	Ca	1.76E+06	
U110	Ca	11/10/89	89-043		1098	ugm/gm	G	Sludge	Braun	Ca	1.76E+06	
U110	Calcium	12/1/89	Core 6 Segment 2	1.59	1098	ug/g	I	PRIMARY	U110 Core Data	Ca	1.75E+06	
B110	Calcium	4/1/90	CORE 10 SEGMENT 3	1.17	1487.58299	ug/g	I		B110 Core Data	Ca	1.74E+06	
B110	Calcium	4/1/90	CORE 4 SEGMENT 5	1.3	1332.69985	ug/g	I		B110 Core Data	Ca	1.73E+06	
b201	Calcium	8/1/91	B08F21	1.3	1323.7	ug/g	S	PRIMARY RESULT	TCD	Ca	1.72E+06	
B111	Ca	3/8/93	92-04062H-1T		1060	ugm/gm	G	Sludge	Braun	Ca	1.70E+06	
U110	Calcium	12/1/89	Core 12 Segment 2	1.77	956	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.69E+06	
B110	Calcium	4/1/90	CORE 10 SEGMENT 3	1.17	1438.40669	ug/g	I		B110 Core Data	Ca	1.68E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
B110	Calcium	4/1/90	CORE 10 SEGMENT 3	1.17	1435.94787	ug/g	I		B110 Core Data	Ca	1.68E+06		
b201	Calcium	8/1/91	B08F21	1.3	1289.6	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.68E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 4	1.3	1288.57072	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.68E+06		
B110	Calcium	4/1/90	CORE 10 SEGMENT 3	1.17	1428.57143	ug/g	I		B110 Core Data	Ca	1.67E+06		
U110	Calcium	12/1/89	Core 12 Segment 2	1.77	942	ug/g	I	PRIMARY	U110 Core Data	Ca	1.67E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 4	1.3	1278.69662	ug/g	I	PRIMARY	B110 Core Data	Ca	1.66E+06		
B111	Ca	4/15/93	93-4316H1		1033	ugm/gm	G	Sludge	Braun	Ca	1.65E+06		
B110	Calcium	4/1/90	CORE 18 SEGMENT 5	1.21	1363.98832	ug/g	I		B110 Core Data	Ca	1.65E+06		
B110	Calcium	4/1/90	CORE 10 SEGMENT 5	1.36	1209.90566	ug/g	I		B110 Core Data	Ca	1.65E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 5	1.3	1244.71299	ug/g	I	PRIMARY	B110 Core Data	Ca	1.62E+06		
t107	Calcium	3/1/93	B08V44	1.1	1460	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.61E+06		
SX106	Ca	2/28/77	RAT-SX106-2	1.45	0.04	moles/l	G	Sludge	Braun	Ca	1.60E+06		
SX106	Ca	2/28/77	RAT-SX106-2	1.58	0.04	moles/l	G	Sludge	Braun	Ca	1.60E+06		
SX106	Ca	2/28/77	RAT-SX106-2	1.6	0.04	moles/l	G	Sludge	Braun	Ca	1.60E+06		
SX106	Ca	2/28/77		1.58	0.04	mol/l	G	Sludge	RAW	Ca	1.60E+06		
B110	Calcium	4/1/90	CORE 10 SEGMENT 5	1.36	1169.81132	ug/g	I		B110 Core Data	Ca	1.59E+06		
B110	Calcium	4/1/90	CORE 18 SEGMENT 5	1.21	1314.43858	ug/g	I		B110 Core Data	Ca	1.59E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 4	1.3	1221.92051	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.59E+06		
s104	Calcium	8/1/92	B08TF6	1.6	972	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.56E+06		
s104	Calcium	8/1/92	B08TF6		972	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.56E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 5	1.3	1186.70695	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.54E+06		
t107	Calcium	3/1/93	B08V44	1.1	1400	ug/g	S	PRIMARY RESULT	TCD	Ca	1.54E+06		
U110	Ca	11/29/89	89-070		942	ugm/gm	G	Sludge	Braun	Ca	1.51E+06		
t111	Calcium	11/1/91	B08SV7	1.09	1370	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.49E+06		
B110	Calcium	4/1/90	CORE 1 SEGMENT 4	1.3	1147.86473	ug/g	I	PRIMARY	B110 Core Data	Ca	1.49E+06		
t111	Calcium	11/1/91	B08ST9	1.11	1340	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.49E+06		
C102	Ca	7/10/86	E1XCOOXM		927	ugm/gm	G	Sludge/Composite	Braun	Ca	1.48E+06		
C102	Ca	6/17/87			927	uG/G	S	PARR	RAW	Ca	1.48E+06		
C102	Ca	1/21/88	E1XCOOXM		927	ug/g	S	PARR	RAW	Ca	1.48E+06		
B110	Calcium	4/1/90	CORE 9 SEGMENT 5	1.24	1181.66156	ug/g	I		B110 Core Data	Ca	1.47E+06		
B110	Calcium	4/1/90	CORE 9 SEGMENT 5	1.24	1172.20827	ug/g	I		B110 Core Data	Ca	1.45E+06		
t111	Calcium	11/1/91	B08ST9	1.11	1300	ug/g	S	PRIMARY RESULT	TCD	Ca	1.44E+06		
b111	Calcium	10/1/91	B08XB7	1.3	1109	ug/g	S	PRIMARY RESULT	TCD	Ca	1.44E+06		
U110	Calcium	12/1/89	Core 6 Segment 2	1.59	905	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.44E+06		
U110	Ca	12/4/89	89-082/3/4		898	ugm/gm	G	Sludge/Composite	Braun	Ca	1.44E+06		
t111	Calcium	11/1/91	B08ST9	1.11	1290	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.43E+06		
t111	Calcium	11/1/91	B08ST9	1.11	1290	ug/g	S	PRIMARY RESULT	TCD	Ca	1.43E+06		
T111	Ca	8/7/92	J-404	1.11	1289.5	ugm/gm	G	Sludge	Braun	Ca	1.43E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Calcium	8/1/92	B08TJ5	1.6	888	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.42E+06	
s104	Calcium	8/1/92	B08TJ5		888	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.42E+06	
t105	Calcium	5/28/93	B08WT4	2.01	705	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.42E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 5	1.28	1100.49233	ug/g	I	PRIMARY	B110 Core Data	Ca	1.41E+06	
t107	Calcium	3/1/93	B08VF0	1.38	1020	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.41E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 5	1.24	1132.03177	ug/g	I		B110 Core Data	Ca	1.40E+06	
T102	Ca	3/1/93	93-087755	1.79	781	ugm/gm	G	Sludge/Composite	Braun	Ca	1.40E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 4	1.28	1062.25296	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.36E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 4	1.28	1054.8419	ug/g	I	PRIMARY	B110 Core Data	Ca	1.35E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 5	1.28	1052.22512	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.35E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 4	1.28	1042.49012	ug/g	I	PRIMARY	B110 Core Data	Ca	1.33E+06	
s104	Calcium	8/1/92	B08TJ4	1.6	833	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.33E+06	
s104	Calcium	8/1/92	B08TJ4		833	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.33E+06	
B111	Ca	3/8/93	92-04054H-1T		824	ugm/gm	G	Sludge	Braun	Ca	1.32E+06	
B110	Calcium	4/1/90	CORE 9 SEGMENT 5	1.24	1054.04211	ug/g	I		B110 Core Data	Ca	1.31E+06	
b202	Calcium	6/7/91	B08SM4	1.35	965	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.30E+06	
B111	Ca	4/15/93	93-4312H1		808	ugm/gm	G	Sludge	Braun	Ca	1.29E+06	
b111	Calcium	10/1/91	B08XB7	1.3	988	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.28E+06	
b202	Calcium	6/7/91	B08SP8	0.98	1310	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.28E+06	
b202	Calcium	6/7/91	B08SM4	1.35	943	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.27E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 5	1.3	978.851964	ug/g	I	PRIMARY	B110 Core Data	Ca	1.27E+06	
b201	Calcium	8/1/91	B08F21	1.3	968.6	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.26E+06	
t107	Calcium	3/1/93	B08V43	1.15	1090	ug/g	S	PRIMARY RESULT	TCD	Ca	1.25E+06	
T102	Ca	5/4/93	Core 55		781	ug/g	I	core segment	RAW	Ca	1.25E+06	
BY104	Ca	11/12/92	R-1775		780	ugm/gm	T	Crust	Braun	Ca	1.25E+06	
BY104	Ca	10/26/92	riser 10b		780	ug/g	S	fusion digestion	RAW	Ca	1.25E+06	
U110	Calcium	12/1/89	Core 7 Segment 4	1.93	645	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.24E+06	
S104	Ca	6/24/93	F-2175		765	ugm/gm	G	Sludge	Braun	Ca	1.22E+06	
t107	Calcium	3/1/93	B08VF0	1.38	883	ug/g	S	PRIMARY RESULT	TCD	Ca	1.22E+06	
t107	Calcium	3/1/93	B08TZ2	1.29	942	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.22E+06	
BX107	Ca	10/20/92	J924-AV		752.17825	ugm/gm	G	Sludge/Composite	Braun	Ca	1.20E+06	
s104	Calcium	8/1/92	B08TF6	1.6	747	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.20E+06	
s104	Calcium	8/1/92	B08TF6		747	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.20E+06	
T111	Ca	8/7/92	J-408	1.09	1084.1	ugm/gm	G	Sludge	Braun	Ca	1.18E+06	
U110	Ca	11/30/89	89-075		737	ugm/gm	G	Sludge	Braun	Ca	1.18E+06	
t111	Calcium	11/1/91	B08SV7	1.09	1080	ug/g	S	PRIMARY RESULT	TCD	Ca	1.18E+06	
t107	Calcium	3/1/93	B08V43	1.15	1020	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.17E+06	
U110	Calcium	12/1/89	Core 7 Segment 3	1.53	761	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.16E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Calcium	12/1/89	Core Composite 15	1.29	898	ug/g	I	PRIMARY	U110 Core Data	Ca	1.16E+06	
t111	Calcium	11/1/91	B08SV7	1.09	1060	ug/g	S	PRIMARY RESULT	TCD	Ca	1.16E+06	
t107	Calcium	3/1/93	B08TZ2	1.29	895	ug/g	S	PRIMARY RESULT	TCD	Ca	1.15E+06	
U110	Calcium	12/1/89	Core Composite 6	1.54	747.948664	ug/g	I	PRIMARY	U110 Core Data	Ca	1.15E+06	
B110	Calcium	4/1/90	CORE 1 SEGMENT 5	1.3	882.175227	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.15E+06	
BX107	Ca	10/20/92	J926-AV		713.65705	ugm/gm	G	Sludge/Composite	Braun	Ca	1.14E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 5	1.28	888.116614	ug/g	I	PRIMARY	B110 Core Data	Ca	1.14E+06	
t107	Calcium	3/1/93	B08VD9	1.305	871	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.14E+06	
BY104	Ca	10/26/92	riser 10b		710	ug/g	S	acid digestion	RAW	Ca	1.14E+06	
t111	Calcium	11/1/91	B08SV7	1.09	1040	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.13E+06	
S104	Ca	6/24/93	F-2171		697	ugm/gm	G	Sludge	Braun	Ca	1.12E+06	
s104	Calcium	8/1/92	B08TJ4	1.6	696	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.11E+06	
s104	Calcium	8/1/92	B08TJ4		696	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.11E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 4	1.28	867.094862	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.11E+06	
t107	Calcium	3/1/93	B08V43	1.15	963	ug/g	S	PRIMARY RESULT	TCD	Ca	1.11E+06	
t107	Calcium	3/1/93	B08V43	1.15	959	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.10E+06	
t107	Calcium	3/1/93	B08V43	1.15	956	ug/g	S	PRIMARY RESULT	TCD	Ca	1.10E+06	
B110	Calcium	4/1/90	CORE 2 SEGMENT 5	1.28	856.742929	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.10E+06	
t102	Calcium	3/1/93	B0B732	1.32	828	ug/g	S	PRIMARY RESULT	TCD	Ca	1.09E+06	
t111	Calcium	11/1/91	B08ST7	0.93	1160	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.08E+06	
b202	Calcium	6/7/91	B08SM4	1.35	794	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.07E+06	
b111	Calcium	10/1/91	B08XB7	1.3	824	ug/g	S	PRIMARY RESULT	TCD	Ca	1.07E+06	
t111	Calcium	11/1/91	B08ST7	0.93	1140	ug/g	S	PRIMARY RESULT	TCD	Ca	1.06E+06	
b111	Calcium	10/1/91	B08XB9	1	1060	ug/g	S	PRIMARY RESULT	TCD	Ca	1.06E+06	
t111	Calcium	11/1/91	B08SQ9	1.13	929	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.05E+06	
b111	Calcium	10/1/91	B08XB7	1.3	805	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.05E+06	
t107	Calcium	3/1/93	B08TZ3	0.95	1100	ug/g	S	PRIMARY RESULT	TCD	Ca	1.05E+06	
t107	Calcium	3/1/93	B08V43	1.15	906	ug/g	S	PRIMARY RESULT	TCD	Ca	1.04E+06	
t111	Calcium	11/1/91	B08SX5	1.06	977	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.04E+06	
b111	Calcium	10/1/91	B08XB9	1	1035	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.04E+06	
b111	Calcium	10/1/91	B08XB9	1	1033	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.03E+06	
t111	Calcium	11/1/91	B08ST7	0.93	1110	ug/g	S	PRIMARY RESULT	TCD	Ca	1.03E+06	
T111	Ca	8/7/92	J-402	0.93	1109	ugm/gm	G	Sludge	Braun	Ca	1.03E+06	
t102	Calcium	3/1/93	B0B732	1.32	781	ug/g	S	PRIMARY RESULT	TCD	Ca	1.03E+06	
t111	Calcium	11/1/91	B08SX5	1.06	966	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.02E+06	
S109	Ca	12/8/76			1.02	g/L	K	Saltcake	Wastren	Ca	1.02E+06	
t102	Calcium	3/1/93	B0B732	1.32	770	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.02E+06	
S109	Ca	12/8/76	RAT-S109-1	1.27	0.08	wt. %	A	Salts	Braun	Ca	1.02E+06	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t111	Calcium	11/1/91	B08SQ9	1.13	895	ug/g	S	PRIMARY RESULT	TCD	Ca	1.01E+06	
T111	Ca	8/7/92	J-414	1.13	895	ugm/gm	G	Sludge	Braun	Ca	1.01E+06	
T111	Ca	8/7/92	J-410	1.06	952.3	ugm/gm	G	Sludge	Braun	Ca	1.01E+06	
t111	Calcium	11/1/91	B08SX5	1.06	952	ug/g	S	PRIMARY RESULT	TCD	Ca	1.01E+06	
b111	Calcium	10/1/91	B08XB9	1	988	ug/g	S	PRIMARY RESULT	TCD	Ca	9.88E+05	
t111	Calcium	11/1/91	B08SX5	1.06	924	ug/g	S	PRIMARY RESULT	TCD	Ca	9.79E+05	
t107	Calcium	3/1/93	B08V43	1.15	843	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.69E+05	
t102	Calcium	3/1/93	B0B732	1.32	733	ug/g	S	PRIMARY RESULT	TCD	Ca	9.68E+05	
t107	Calcium	3/1/93	B08TZ2	1.29	749	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.66E+05	
t111	Calcium	11/1/91	B08ST7	0.93	1030	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.58E+05	
t102	Calcium	3/1/93	B0B732	1.32	716	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.45E+05	
U110	Ca	12/4/89	89-083		587	ugm/gm	G	Sludge	Braun	Ca	9.39E+05	
t107	Calcium	3/1/93	B08VB9	1.19	781	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.29E+05	
t102	Calcium	3/1/93	B0B732	1.32	697	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.20E+05	
T104	Ca	1/26/93	T104-C45-C2		573	ugm/gm	G	Sludge/Composite	Braun	Ca	9.17E+05	
t102	Calcium	3/1/93	B0B732	1.32	689	ug/g	S	PRIMARY RESULT	TCD	Ca	9.09E+05	
U110	Ca	11/15/89	89-048		568	ugm/gm	G	Sludge	Braun	Ca	9.09E+05	
U110	Calcium	12/1/89	Core Composite 12	1.42	632.612577	ug/g	I	DUPLICATE	U110 Core Data	Ca	8.98E+05	
s104	Calcium	8/1/92	B08TF7	1.6	555	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.88E+05	
s104	Calcium	8/1/92	B08TF7		555	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.88E+05	
b202	Calcium	6/7/91	B08SM4	1.35	653.858	mg/kg	S	DUPLICATE RESULT	TCD	Ca	8.83E+05	
BX107	Ca	10/20/92	J927-AV		549.32115	ugm/gm	G	Sludge/Composite	Braun	Ca	8.79E+05	
BX107	Ca	10/20/92	J926-AV		547	ugm/gm	G	Sludge/Composite	Braun	Ca	8.75E+05	
U110	Calcium	12/1/89	Core 7 Segment 3	1.53	568	ug/g	I	PRIMARY	U110 Core Data	Ca	8.69E+05	
t107	Calcium	3/1/93	B08TZ3	0.95	910	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.65E+05	
U110	Calcium	12/1/89	Core 15 Segment 3	1.3	665	ug/g	I	DUPLICATE	U110 Core Data	Ca	8.65E+05	
t107	Calcium	3/1/93	B08TZ2	1.29	658	ug/g	S	PRIMARY RESULT	TCD	Ca	8.49E+05	
s104	Calcium	8/1/92	B08TF7	1.6	530	mg/kg	S	DUPLICATE RESULT	TCD	Ca	8.48E+05	
s104	Calcium	8/1/92	B08TF7		530	mg/kg	S	DUPLICATE RESULT	TCD	Ca	8.48E+05	
t102	Calcium	3/1/93	B0B732	1.32	642	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.47E+05	
t107	Calcium	3/1/93	B08V43	1.15	735	ug/g	S	PRIMARY RESULT	TCD	Ca	8.45E+05	
U110	Ca	12/4/89	89-084		528	ugm/gm	G	Sludge	Braun	Ca	8.45E+05	
U110	Calcium	12/1/89	Core 13 Segment 3	1.14	737	ug/g	I	PRIMARY	U110 Core Data	Ca	8.40E+05	
SX103	Ca	9/17/76	RAT-SX103-3	0.84	0.1	wt. %	A	Salts	Braun	Ca	8.40E+05	
t107	Calcium	3/1/93	B08VB9	1.19	702	ug/g	S	PRIMARY RESULT	TCD	Ca	8.35E+05	
U110	Ca	11/10/89	89-049		521	ugm/gm	G	Sludge	Braun	Ca	8.34E+05	
t107	Calcium	3/1/93	B08VFO	1.38	603	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.32E+05	
t107	Calcium	3/1/93	B08V43	1.15	723	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.31E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Calcium	3/1/93	B08TZ2	1.29	643	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.29E+05	
t102	Calcium	3/1/93	B0B732	1.32	625	ug/g	S	PRIMARY RESULT	TCD	Ca	8.25E+05	
b202	Calcium	6/7/91	B08SP8	0.98	841.1467	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.24E+05	
b202	Calcium	6/7/91	B08SP8	0.98	841	mg/kg	S	PRIMARY RESULT	TCD	Ca	8.24E+05	
U110	Calcium	12/1/89	Core Composite 12	1.42	571.68871	ug/g	I	PRIMARY	U110 Core Data	Ca	8.12E+05	
U110	Ca	12/4/89	89-082		506	ugm/gm	G	Sludge	Braun	Ca	8.10E+05	
t107	Calcium	3/1/93	B08VFO	1.38	583	ug/g	S	PRIMARY RESULT	TCD	Ca	8.05E+05	
t107	Calcium	3/1/93	B08TZ2	1.29	620	ug/g	S	PRIMARY RESULT	TCD	Ca	8.00E+05	
U110	Ca	11/29/89	89-072		492	ugm/gm	G	Sludge	Braun	Ca	7.87E+05	
U110	Ca	11/29/89	89-071		483	ugm/gm	G	Sludge	Braun	Ca	7.73E+05	
t107	Calcium	3/1/93	B08V43	1.15	672	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.73E+05	
U110	Calcium	12/1/89	Core 5 Segment 3	1.04	743	ug/g	I	DUPLICATE	U110 Core Data	Ca	7.73E+05	
t107	Calcium	3/1/93	B08V43	1.15	671	ug/g	S	PRIMARY RESULT	TCD	Ca	7.72E+05	
t107	Calcium	3/1/93	B08VB9	1.19	643	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.65E+05	
U110	Calcium	12/1/89	Core 15 Segment 3	1.3	587	ug/g	I	PRIMARY	U110 Core Data	Ca	7.63E+05	
U110	Calcium	12/1/89	Core 12 Segment 4	1.48	515	ug/g	I	DUPLICATE	U110 Core Data	Ca	7.62E+05	
b202	Calcium	6/7/91	B08SK0	0.93	807	mg/kg	S	PRIMARY RESULT	TCD	Ca	7.51E+05	
c112	Calcium	3/1/92	B08DY1	2	373.7	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.47E+05	
U110	Calcium	12/1/89	Core Composite 15	1.29	572.893401	ug/g	I	PRIMARY	U110 Core Data	Ca	7.39E+05	
U110	Calcium	12/1/89	Core 7 Segment 4	1.93	382	ug/g	I	PRIMARY	U110 Core Data	Ca	7.37E+05	
t102	Calcium	3/1/93	B0B732	1.32	556	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.34E+05	
U110	Calcium	12/1/89	Core 12 Segment 4	1.48	492	ug/g	I	PRIMARY	U110 Core Data	Ca	7.28E+05	
b202	Calcium	6/7/91	B0BC06	0.99	735	mg/kg	S	PRIMARY RESULT	TCD	Ca	7.28E+05	
t107	Calcium	3/1/93	B08VB9	1.19	611	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.27E+05	
U110	Calcium	12/1/89	Core Composite 13	1.3	556.822938	ug/g	I	PRIMARY	U110 Core Data	Ca	7.24E+05	
b202	Calcium	6/7/91	B08SP8	0.98	719	mg/kg	S	PRIMARY RESULT	TCD	Ca	7.05E+05	
U110	Calcium	12/1/89	Core 15 Segment 4	1.31	528	ug/g	I	PRIMARY	U110 Core Data	Ca	6.92E+05	
U110	Calcium	12/1/89	Core Composite 15	1.29	527.605843	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.81E+05	
s104	Calcium	8/1/92	B08TF6	1.6	423	mg/kg	S	DUPLICATE RESULT	TCD	Ca	6.77E+05	
s104	Calcium	8/1/92	B08TF6		423	mg/kg	S	DUPLICATE RESULT	TCD	Ca	6.77E+05	
t107	Calcium	3/1/93	B08TZ2	1.29	516	ug/g	S	DUPLICATE RESULT	TCD	Ca	6.66E+05	
U110	Calcium	12/1/89	Core Composite 13	1.3	511.757672	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.65E+05	
b202	Calcium	6/7/91	B0BC06	0.99	653.858	mg/kg	S	DUPLICATE RESULT	TCD	Ca	6.47E+05	
t107	Calcium	3/1/93	B08VB9	1.19	542	ug/g	S	PRIMARY RESULT	TCD	Ca	6.45E+05	
U110	Calcium	12/1/89	Core Composite 6	1.54	418.664827	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.45E+05	
U110	Calcium	12/1/89	Core 15 Segment 2	1.27	506	ug/g	I	PRIMARY	U110 Core Data	Ca	6.43E+05	
U110	Calcium	12/1/89	Core 6 Segment 3	1.22	521	ug/g	I	PRIMARY	U110 Core Data	Ca	6.36E+05	
U110	Calcium	12/1/89	Core 15 Segment 2	1.27	494	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.27E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Ca	9/19/89	89-040		391	ugm/gm	G	Sludge	Braun	Ca	6.26E+05	
U110	Ca	11/30/89	89-076		388	ugm/gm	G	Sludge	Braun	Ca	6.21E+05	
t107	Calcium	3/1/93	B08VFO	1.38	449	ug/g	S	PRIMARY RESULT	TCD	Ca	6.20E+05	
U110	Ca	11/15/89	89-049		382	ugm/gm	G	Sludge	Braun	Ca	6.11E+05	
c112	Calcium	3/1/92	B08DY1	2	303.8	ug/g	S	PRIMARY RESULT	TCD	Ca	6.08E+05	
t107	Calcium	3/1/93	B08VFO	1.38	437	ug/g	S	PRIMARY RESULT	TCD	Ca	6.03E+05	
U110	Calcium	12/1/89	Core 6 Segment 3	1.22	492	ug/g	I	DUPLICATE	U110 Core Data	Ca	6.00E+05	
U110	Calcium	12/1/89	Core Composite 7	1.675	353.660344	ug/g	I	PRIMARY	U110 Core Data	Ca	5.92E+05	
BX107	Ca	10/20/92	J925-AV		368.7378	ugm/gm	G	Sludge/Composite	Braun	Ca	5.90E+05	
U110	Calcium	12/1/89	Core Composite 5	1.04	559.176495	ug/g	I	PRIMARY	U110 Core Data	Ca	5.82E+05	
U110	Calcium	12/1/89	Core Composite 5	1.04	558.939394	ug/g	I	DUPLICATE	U110 Core Data	Ca	5.81E+05	
t107	Calcium	3/1/93	B08VFO	1.38	420	ug/g	S	PRIMARY RESULT	TCD	Ca	5.80E+05	
BX107	Ca	10/20/92	J924-AV		360.1185	ugm/gm	G	Sludge/Composite	Braun	Ca	5.76E+05	
U110	Calcium	12/1/89	Core 15 Segment 4	1.31	438	ug/g	I	DUPLICATE	U110 Core Data	Ca	5.74E+05	
b111	Calcium	10/1/91	B08XB3	1.3	436	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.67E+05	
U110	Calcium	12/1/89	Core 13 Segment 4	1.46	388	ug/g	I	PRIMARY	U110 Core Data	Ca	5.66E+05	
t107	Calcium	3/1/93	B08VFO	1.38	409	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.64E+05	
t107	Calcium	3/1/93	B08VFO	1.38	407	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.62E+05	
b202	Calcium	6/7/91	B08SM2	1.02	550.3133	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.61E+05	
C102	Ca	2/1/91	1		350	mg/kg	S	water leach	RAW	Ca	5.60E+05	
t107	Calcium	3/1/93	B08VFO	1.38	405	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.59E+05	
U110	Calcium	12/1/89	Core Composite 12	1.42	393.199043	ug/g	I	PRIMARY	U110 Core Data	Ca	5.58E+05	
s104	Calcium	8/1/92	B08S50	1.6	339	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.42E+05	
s104	Calcium	8/1/92	B08S50		339	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.42E+05	
U110	Calcium	12/1/89	Core Composite 7	1.675	320.837696	ug/g	I	DUPLICATE	U110 Core Data	Ca	5.37E+05	
b111	Calcium	10/1/91	B08XB3	1.3	410	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.33E+05	
U110	Calcium	12/1/89	Core 13 Segment 4	1.46	365	ug/g	I	DUPLICATE	U110 Core Data	Ca	5.33E+05	
U110	Calcium	12/1/89	Core 6 Segment 4	1.8	295	ug/g	I	PRIMARY	U110 Core Data	Ca	5.31E+05	
s104	Calcium	8/1/92	B08S50	1.6	331	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.30E+05	
s104	Calcium	8/1/92	B08S50		331	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.30E+05	
s104	Calcium	8/1/92	B08TJ4	1.6	330	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.28E+05	
s104	Calcium	8/1/92	B08TJ4		330	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.28E+05	
s104	Calcium	8/1/92	B08TJ4	1.6	327	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.23E+05	
s104	Calcium	8/1/92	B08TJ4		327	mg/kg	S	PRIMARY RESULT	TCD	Ca	5.23E+05	
b202	Calcium	6/7/91	B08SP8	0.98	533.2713	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.23E+05	
t107	Calcium	3/1/93	B08VFO	1.38	375	ug/g	S	PRIMARY RESULT	TCD	Ca	5.18E+05	
s104	Calcium	8/1/92	B08S50	1.6	314	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.02E+05	
s104	Calcium	8/1/92	B08S50		314	mg/kg	S	DUPLICATE RESULT	TCD	Ca	5.02E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
ASA Value: 5.06E+07 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Calcium	12/1/89	Core 14 Segment 4	1.62	308	ug/g	I	DUPLICATE	U110 Core Data	Ca	4.99E+05	
b202	Calcium	6/7/91	B08SK0	0.93	536	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.98E+05	
b202	Calcium	6/7/91	B08SK0	0.93	535.842	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.98E+05	
b202	Calcium	6/7/91	B08C06	0.99	502	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.97E+05	
b111	Calcium	10/1/91	B08XB3	1.3	382	ug/g	S	PRIMARY RESULT	TCD	Ca	4.97E+05	
BX107	Ca	10/20/92	J926-AV		306.39475	ugm/gm	G	Sludge/Composite	Braun	Ca	4.90E+05	
U110	Calcium	12/1/89	Core 12 Segment 3	1	483	ug/g	I	PRIMARY	U110 Core Data	Ca	4.83E+05	
U110	Calcium	12/1/89	Core 14 Segment 4	1.62	297	ug/g	I	PRIMARY	U110 Core Data	Ca	4.81E+05	
C107	Ca	9/26/77	T-510-27		0.012	moles/l	G	Sludge	Braun	Ca	4.81E+05	
C107	Ca	9/26/77	510 Bottom		0.012	M	S		RAW	Ca	4.81E+05	
U110	Ca	12/3/89	89-080		297	ugm/gm	G	Sludge	Braun	Ca	4.75E+05	
C102	Ca	2/1/91	2		297	mg/kg	S	water leach	RAW	Ca	4.75E+05	
BX107	Ca	10/20/92	J927-AV		296	ugm/gm	G	Sludge/Composite	Braun	Ca	4.74E+05	
U110	Ca	11/10/89	89-045		295	ugm/gm	G	Sludge	Braun	Ca	4.72E+05	
U110	Calcium	12/1/89	Core 7 Segment 2	1.46	321	ug/g	I	PRIMARY	U110 Core Data	Ca	4.69E+05	
U110	Calcium	12/1/89	Core Composite 14	1.48	316.235249	ug/g	I	DUPLICATE	U110 Core Data	Ca	4.68E+05	
U110	Calcium	12/1/89	Core Composite 6	1.54	300.549176	ug/g	I	PRIMARY	U110 Core Data	Ca	4.63E+05	
U110	Calcium	12/1/89	Core 7 Segment 2	1.46	317	ug/g	I	DUPLICATE	U110 Core Data	Ca	4.63E+05	
t104	Calcium	8/26/92	B08S09	1.13	400	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.52E+05	
U110	Calcium	12/1/89	Core 12 Segment 3	1	447	ug/g	I	DUPLICATE	U110 Core Data	Ca	4.47E+05	
t104	Calcium	8/26/92	B08S09	1.13	395	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.46E+05	
s104	Calcium	8/1/92	B08TL3	1.6	277	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.43E+05	
s104	Calcium	8/1/92	B08TL3		277	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.43E+05	
C107	Ca	8/2/77	T-8110-9		0.011	moles/l	G	Sludge	Braun	Ca	4.41E+05	
B101	Ca				396	g-moles	S		TRAC	Ca	4.40E+05	
s104	Calcium	8/1/92	B08S46	1.6	272	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.35E+05	
s104	Calcium	8/1/92	B08S46		272	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.35E+05	
s104	Calcium	8/1/92	B08S50	1.6	271	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.34E+05	
s104	Calcium	8/1/92	B08S50		271	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.34E+05	
b202	Calcium	6/7/91	B08C06	0.99	435	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.31E+05	
s104	Calcium	8/1/92	B08TJ5	1.6	269	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.30E+05	
s104	Calcium	8/1/92	B08TJ5		269	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.30E+05	
s104	Calcium	8/1/92	B08S46	1.6	265	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.24E+05	
s104	Calcium	8/1/92	B08TL3	1.6	265	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.24E+05	
s104	Calcium	8/1/92	B08S46		265	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.24E+05	
s104	Calcium	8/1/92	B08TL3		265	mg/kg	S	DUPLICATE RESULT	TCD	Ca	4.24E+05	
s104	Calcium	8/1/92	B08TL4	1.6	264	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.22E+05	
s104	Calcium	8/1/92	B08TL4		264	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.22E+05	

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Calcium	5/28/93	B08WT4	2.01	209	ug/g	S	PRIMARY RESULT	TCD	Ca	4.20E+05	
SX104	Ca	2/14/77	RAT-SX104-2	1.39	0.03	wt. %	A	Salts	Braun	Ca	4.17E+05	
U110	Calcium	12/1/89	Core 5 Segment 3	1.04	391	ug/g	I	PRIMARY	U110 Core Data	Ca	4.07E+05	
t104	Calcium	8/26/92	B08S09	1.13	358	mg/kg	S	PRIMARY RESULT	TCD	Ca	4.05E+05	
U110	Calcium	12/1/89	Core Composite 14	1.48	271.681997	ug/g	I	PRIMARY	U110 Core Data	Ca	4.02E+05	
bx107	Calcium	6/1/92	B08SF0	1.326	303	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.02E+05	
SX102	Ca	4/18/75	RAT-SX102-1	1.88	0.01	moles/l	S	Supernate/Solids	Braun	Ca	4.01E+05	
SX102	Ca(OH)2	4/28/75		1.88	0.01	mol/l	S	Solids	RAW	Ca	4.00E+05	
b111	Calcium	10/1/91	B08XB3	1.3	307	ug/g	S	PRIMARY RESULT	TCD	Ca	3.99E+05	
t104	Calcium	8/26/92	B08S09	1.13	350	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.96E+05	
U110	Ca	12/3/89	89-078		244	ugm/gm	G	Sludge	Braun	Ca	3.90E+05	
bx107	Calcium	6/1/92	B08SD6	0.996	388.2804	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.87E+05	
s104	Calcium	8/1/92	B08S46	1.6	241	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.86E+05	
s104	Calcium	8/1/92	B08S46		241	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.86E+05	
s104	Calcium	8/1/92	B08TL4	1.6	236	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.78E+05	
s104	Calcium	8/1/92	B08TL4		236	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.78E+05	
U110	Calcium	12/1/89	Core 14 Segment 2	1.39	271	ug/g	I	DUPLICATE	U110 Core Data	Ca	3.77E+05	
bx107	Calcium	6/1/92	B08SD6	0.996	371.3606	ug/g	S	PRIMARY RESULT	TCD	Ca	3.70E+05	
bx107	Calcium	6/1/92	B08SF0	1.326	277	ug/g	S	PRIMARY RESULT	TCD	Ca	3.67E+05	
U110	Calcium	12/1/89	Core Composite 7	1.675	219.304695	ug/g	I	PRIMARY	U110 Core Data	Ca	3.67E+05	
bx107	Calcium	6/1/92	B08SF0	1.326	276	ug/g	S	PRIMARY RESULT	TCD	Ca	3.66E+05	
bx107	Calcium	6/1/92	B08SD6	0.996	366.0582	ug/g	S	PRIMARY RESULT	TCD	Ca	3.64E+05	
s104	Calcium	8/1/92	B08S48	1.6	225	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.60E+05	
s104	Calcium	8/1/92	B08S48		225	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.60E+05	
bx107	Calcium	6/1/92	B08SF0	1.326	269	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.57E+05	
s104	Calcium	8/1/92	B08S48	1.6	222	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.55E+05	
s104	Calcium	8/1/92	B08S48		222	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.55E+05	
s104	Calcium	8/1/92	B08S48	1.6	221	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.54E+05	
s104	Calcium	8/1/92	B08S48		221	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.54E+05	
bx107	Calcium	6/1/92	B08SD6	0.996	347.7389	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.46E+05	
s104	Calcium	8/1/92	B08S48	1.6	215	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.44E+05	
s104	Calcium	8/1/92	B08S48		215	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.44E+05	
b202	Calcium	6/7/91	B08SM2	1.02	336.108	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.43E+05	
s104	Calcium	8/1/92	B08TF7	1.6	213	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.41E+05	
s104	Calcium	8/1/92	B08TF7		213	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.41E+05	
U110	Calcium	12/1/89	Core 14 Segment 2	1.39	244	ug/g	I	PRIMARY	U110 Core Data	Ca	3.39E+05	
s104	Calcium	8/1/92	B08S46	1.6	206	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.30E+05	
s104	Calcium	8/1/92	B08S46		206	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.30E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
b202	Calcium	6/7/91	B08SM2	1.02	323	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.29E+05	
s104	Calcium	8/1/92	B08TJ5	1.6	203	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.25E+05	
s104	Calcium	8/1/92	B08TJ5		203	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.25E+05	
b202	Calcium	6/7/91	B08SP8	0.98	330	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.23E+05	
s104	Calcium	8/1/92	B08TF7	1.6	202	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.23E+05	
s104	Calcium	8/1/92	B08TF7		202	mg/kg	S	DUPLICATE RESULT	TCD	Ca	3.23E+05	
s104	Calcium	8/1/92	B08TF6	1.6	196	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.14E+05	
s104	Calcium	8/1/92	B08TF6		196	mg/kg	S	PRIMARY RESULT	TCD	Ca	3.14E+05	
U110	Ca	12/3/89	89-077		193	ugm/gm	G	Sludge	Braun	Ca	3.09E+05	
s104	Calcium	8/1/92	B08TF6	1.6	178	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.85E+05	
s104	Calcium	8/1/92	B08TF6		178	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.85E+05	
U110	Calcium	12/1/89	Core 7 Segment 1	1.78	160	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.85E+05	
B110	Calcium	4/1/90	Core Composite 1	1.36	209.271201	ug/g	I	PRIMARY	B110 Core Data	Ca	2.85E+05	
U110	Calcium	12/1/89	Core 7 Segment 1	1.78	152	ug/g	I	PRIMARY	U110 Core Data	Ca	2.71E+05	
U110	Ca	9/19/89	89-041		155	ugm/gm	G	Sludge	Braun	Ca	2.48E+05	
U110	Calcium	12/1/89	Core 5 Segment 4		155	ug/g	I	PRIMARY	U110 Core Data	Ca	2.48E+05	
A103	Ca				187.765	g-moles	S		TRAC	Ca	2.48E+05	
U110	Ca	11/15/89	89-046		152	ugm/gm	G	Sludge	Braun	Ca	2.43E+05	
U110	Calcium	12/1/89	Core 5 Segment 4		152	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.43E+05	
SX108	Ca				10200	g-moles	S		TRAC	Ca	2.42E+05	
B110	Calcium	4/1/90	Core Composite 1	1.36	175.203796	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.38E+05	
s104	Calcium	8/1/92	B08TF7	1.6	148	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.37E+05	
s104	Calcium	8/1/92	B08TF7		148	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.37E+05	
BX107	Ca	10/20/92	J925-AV		147	ugm/gm	G	Sludge/Composite	Braun	Ca	2.35E+05	
U110	Calcium	12/1/89	Core Composite 15	1.29	175.55516	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.26E+05	
b202	Calcium	6/7/91	B08SK0	0.93	235.8445	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.19E+05	
U110	Calcium	12/1/89	Core 14 Segment 1	1.5	146	ug/g	I	PRIMARY	U110 Core Data	Ca	2.19E+05	
U110	Calcium	12/1/89	Core Composite 8		134	ug/g	I	DUPLICATE	U110 Core Data	Ca	2.14E+05	
s104	Calcium	8/1/92	B08TJ4	1.6	128	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.05E+05	
s104	Calcium	8/1/92	B08TJ4		128	mg/kg	S	DUPLICATE RESULT	TCD	Ca	2.05E+05	
U110	Ca	12/3/89	89-079		124	ugm/gm	G	Sludge	Braun	Ca	1.98E+05	
U110	Calcium	12/1/89	Core Composite 15	1.29	152	ug/g	I	PRIMARY	U110 Core Data	Ca	1.96E+05	
s104	Calcium	8/1/92	B08TF6	1.6	121	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.94E+05	
s104	Calcium	8/1/92	B08TF6		121	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.94E+05	
BX107	Ca	10/20/92	J927-AV		120.9842	ugm/gm	G	Sludge/Composite	Braun	Ca	1.94E+05	
s104	Calcium	8/1/92	B08TL3	1.6	115	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.84E+05	
s104	Calcium	8/1/92	B08TL3		115	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.84E+05	
U110	Calcium	12/1/89	Core Composite 7	1.675	104.468719	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.75E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
b202	Calcium	6/7/91	B08SK0	0.93	188	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.75E+05	
U110	Calcium	12/1/89	Core 14 Segment 3	1.4	124	ug/g	I	PRIMARY	U110 Core Data	Ca	1.74E+05	
s104	Calcium	8/1/92	B08TJ5	1.6	108	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.73E+05	
s104	Calcium	8/1/92	B08TJ5		108	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.73E+05	
SX110	Ca				11300	g-moles	S		TRAC	Ca	1.72E+05	
U110	Calcium	12/1/89	Core 14 Segment 3	1.4	120	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.68E+05	
s104	Calcium	8/1/92	B08TJ4	1.6	102	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.63E+05	
s104	Calcium	8/1/92	B08TJ4		102	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.63E+05	
U110	Calcium	12/1/89	Core Composite 8		98	ug/g	I	PRIMARY	U110 Core Data	Ca	1.57E+05	
s104	Calcium	8/1/92	B08TL3	1.6	92.3	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.48E+05	
s104	Calcium	8/1/92	B08TL3		92.3	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.48E+05	
s104	Calcium	8/1/92	B08TJ5	1.6	90.9	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.45E+05	
s104	Calcium	8/1/92	B08TJ5		90.9	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.45E+05	
TX118	Ca	1/28/80	RAT-TX118-1	1.341	0.01	wt. %	S	Solids	Braun	Ca	1.34E+05	
B110	Calcium	4/1/90	Core Composite 3	1.36	97.770825	ug/g	I	PRIMARY	B110 Core Data	Ca	1.33E+05	
U110	Calcium	12/1/89	Core Composite 6	1.54	83.6649423	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.29E+05	
TX108	Ca				811.99587	g-moles	S		TRAC	Ca	1.28E+05	
C102	Ca	1/21/88	E1XCOOXX		78.9	PPM	S	Raw PARR	RAW	Ca	1.26E+05	
s104	Calcium	8/1/92	B08TL4	1.6	78.9	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.26E+05	
s104	Calcium	8/1/92	B08TL4		78.9	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.26E+05	
TX118	Ca	2/3/77	RAT-TX118-1	1.26	0.01	wt. %	S	Solids	Braun	Ca	1.26E+05	
S111	Ca	9/18/80			0.126	g/L	G	Sludge	Wastren	Ca	1.26E+05	
U110	Calcium	12/1/89	Core Composite 12	1.42	88.2411263	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.25E+05	
B110	Calcium	4/1/90	Core Composite 3	1.36	85.549472	ug/g	I	DUPLICATE	B110 Core Data	Ca	1.16E+05	
S111	Ca	9/18/80	RAT-S111-5		0.00719	wt. %	S	Solids	Braun	Ca	1.15E+05	
t105	Calcium	5/28/93	B08WT2	0.89	126	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.12E+05	
s104	Calcium	8/1/92	B08TL4	1.6	67.8	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.08E+05	
s104	Calcium	8/1/92	B08TL4		67.8	mg/kg	S	DUPLICATE RESULT	TCD	Ca	1.08E+05	
s104	Calcium	8/1/92	B08TF7	1.6	67.2	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.08E+05	
s104	Calcium	8/1/92	B08TF7		67.2	mg/kg	S	PRIMARY RESULT	TCD	Ca	1.08E+05	
U110	Calcium	12/1/89	Core 14 Segment 1	1.5	71	ug/g	I	DUPLICATE	U110 Core Data	Ca	1.07E+05	
SX107	Ca				2260	g-moles	S		TRAC	Ca	1.00E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
t105	Calcium	5/28/93	B08WT2	0.89	108	ug/g	S	PRIMARY RESULT	TCD	Ca	9.61E+04	
U110	Calcium	12/1/89	Core Composite 14	1.48	64.6865344	ug/g	I	DUPLICATE	U110 Core Data	Ca	9.57E+04	
U108	Ca	8/14/75			0.0898	g/L	K	Saltcake	Wastren	Ca	8.98E+04	
BX102	Ca				407.9709	g-moles	S		TRAC	Ca	7.68E+04	
BY104	Ca	10/26/92	riser 10b		45	ug/g	S	water digestion	RAW	Ca	7.20E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
U110	Calcium	12/1/89	Core Composite 14	1.48	46.3701635	ug/g	I	PRIMARY	U110 Core Data	Ca	6.86E+04		
U110	Calcium	12/1/89	Core Composite 5	1.04	65.8960786	ug/g	I	PRIMARY	U110 Core Data	Ca	6.85E+04		
A106	Ca				138	g-moles	S		TRAC	Ca	6.62E+04		
B102	Ca				19.099391	g-moles	S		TRAC	Ca	6.30E+04		
B110	Calcium	4/1/90	Core Composite 9	1.32	44.778013	ug/g	I	DUPLICATE	B110 Core Data	Ca	5.91E+04		
C102	Ca	1/21/88	E1XCOOXX		30.1	PPM	S	Raw Acid	RAW	Ca	4.82E+04		
B110	Calcium	4/1/90	Core Composite 10	1.34	31.787173	ug/g	I	DUPLICATE	B110 Core Data	Ca	4.26E+04		
B110	Calcium	4/1/90	Core Composite 10	1.34	31.787173	ug/g	I	PRIMARY	B110 Core Data	Ca	4.26E+04		
U110	Calcium	12/1/89	Core Composite 5	1.04	40.4095813	ug/g	I	DUPLICATE	U110 Core Data	Ca	4.20E+04		
U110	Calcium	12/1/89	Core Composite 13	1.3	23.5914792	ug/g	I	DUPLICATE	U110 Core Data	Ca	3.07E+04		
B110	Calcium	4/1/90	Core Composite 4	1.36	21.934635	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.98E+04		
B110	Calcium	4/1/90	Core Composite 9	1.32	22.389007	ug/g	I	PRIMARY	B110 Core Data	Ca	2.96E+04		
B110	Calcium	4/1/90	Core Composite 18	1.37	20.345893	ug/g	I	PRIMARY	B110 Core Data	Ca	2.79E+04		
U110	Calcium	12/1/89	Core Composite 13	1.3	20.7350629	ug/g	I	PRIMARY	U110 Core Data	Ca	2.70E+04		
B110	Calcium	4/1/90	Core Composite 4	1.36	19.741171	ug/g	I	PRIMARY	B110 Core Data	Ca	2.68E+04		
B110	Calcium	4/1/90	Core Composite 18	1.37	17.4197	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.39E+04		
B110	Calcium	4/1/90	Core Composite 2	1.33	16.427413	ug/g	I	DUPLICATE	B110 Core Data	Ca	2.18E+04		
B110	Calcium	4/1/90	Core Composite 2	1.33	16.427413	ug/g	I	PRIMARY	B110 Core Data	Ca	2.18E+04		
C105	Ca				488	g-moles	S		TRAC	Ca	1.96E+04		
t102	Calcium	3/1/93	B0B732	1.32	14	ug/g	S	PRIMARY RESULT	TCD	Ca	1.85E+04		
B112	Ca				137.99994	g-moles	S		TRAC	Ca	1.77E+04		
C102	Ca	2/1/91	1		17.6	ug/mL	S	water leach	RAW	Ca	1.76E+04		
t102	Calcium	3/1/93	B0B732	1.32	13	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.72E+04		
C102	Ca	2/1/91	2		14.9	ug/mL	S	water leach	RAW	Ca	1.49E+04		
C106	Ca	5/19/86		1.22	11.4	mg/L	I	Composite	RAW	Ca	1.14E+04		
B103	Ca				2.4379	g-moles	S		TRAC	Ca	1.03E+04		
C102	Ca	2/1/91	1		9.75	ug/mL	S	25x Dil	RAW	Ca	9.75E+03		
C102	Ca	2/1/91	1		9.3	ug/mL	S	5X Dil	RAW	Ca	9.30E+03		
C102	Ca	2/1/91	2		8.95	ug/mL	S	25x Dil	RAW	Ca	8.95E+03		
C102	Ca	2/1/91	2		8.63	ug/mL	S	5X Dil	RAW	Ca	8.63E+03		
A102	Ca				66.3999943	g-moles	S		TRAC	Ca	2.38E+03		
BX103	Ca				46	g-moles	S		TRAC	Ca	6.33E+02		
A101	Ca				12.6	g-moles	S		TRAC	Ca	4.87E+02		
SX102	Ca				33.5999941	g-moles	S		TRAC	Ca	4.16E+02		
SX103	Ca				12.0607	g-moles	S		TRAC	Ca	1.25E+02		
T101	Ca				0.00422	g-moles	S		TRAC	Ca	4.45E+01		
B110	Ca				2	g-moles	S		TRAC	Ca	3.58E+01		
B109	Ca				0.12156	g-moles	S		TRAC	Ca	2.06E+01		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Single-Shell Tank Solids [Sketch ES-VAL-CC08]
 ASA Value: 5.06E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX105	Ca				0.98837	g-moles	S		TRAC	Ca	1.97E+01	
TX101	Ca				0.33	g-moles	S		TRAC	Ca	1.16E+01	
C104	Ca				0.0963	g-moles	S		TRAC	Ca	7.94E+00	
BY103	Ca				0.415851	g-moles	S		TRAC	Ca	4.10E+00	
BX106	Ca				0.339	g-moles	S		TRAC	Ca	3.31E+00	
BY111	Ca				0.00052	g-moles	S		TRAC	Ca	6.86E-01	
C103	Ca				0.0521	g-moles	S		TRAC	Ca	6.02E-01	
BY102	Ca				0.021844	g-moles	S		TRAC	Ca	5.22E-01	
BY109	Ca				0.018743	g-moles	S		TRAC	Ca	5.14E-01	
S112	Ca				0.06127	g-moles	S		TRAC	Ca	4.65E-01	
BX111	Ca				0.00197	g-moles	S		TRAC	Ca	4.33E-01	
BY112	Ca				0.007045	g-moles	S		TRAC	Ca	4.13E-01	
TY103	Ca				0.000676	g-moles	S		TRAC	Ca	3.40E-01	
BY101	Ca				0.0021	g-moles	S		TRAC	Ca	2.13E-01	
TX118	Ca				0.03697	g-moles	S		TRAC	Ca	1.78E-01	
S103	Ca				0.00428	g-moles	S		TRAC	Ca	6.24E-02	
B108	Ca				0.0001067	g-moles	S		TRAC	Ca	1.13E-02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Liquids [Sketch ES-VAL-CC09]
 ASA Value: 5.0E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX104	Cd	8/3/77	JS#8-AL#D-129		0.11	M	P	Supernatant	RAW	Cd	1.24E+07	11
AX104	Cd	8/3/77	JS#7-AL#D-78		0.0747	M	P	Supernatant	RAW	Cd	8.40E+06	11
AX104	Cd	9/15/77	148JS#29-AL#2984		0.00124	M	P	Supernatant	RAW	Cd	1.39E+05	11
SX106	Cd	4/18/78	8301	1.33	0.000819	moles/l	P	Supernate	Braun	Cd	9.21E+04	11
SX106	Cd	4/18/78	8301	1.37	0.000819	moles/l	P	Supernate	Braun	Cd	9.21E+04	11
SX106	Cd	4/18/78	8301	1.37	0.000819	M	P	Supernatant	RAW	Cd	9.21E+04	2
C102	Cd	4/1/90	RAT-C102-1		80	ugm/gm	U	Unknown	Braun	Cd	8.80E+04	2
C105	Cd	4/1/90	RAT-C105-4A		80	ugm/gm	U	Unknown	Braun	Cd	8.80E+04	11
A103	Cd	4/3/86	B2XD00XX	1.48	50.2	mg/l	L	Liquor	Braun	Cd	5.02E+04	8
A103	Cadmium	5/19/87	B1XD00XD		50.2	mg/L	L	Drainable Liquor	RAW	Cd	5.02E+04	8
A103	Cadmium	5/19/87	B1XD00XD		50.2	mg/L	L	Drainable Liquor	RAW	Cd	5.02E+04	8
A103	Cd	4/3/86			0.0502	g/L	L	Drainable Liquid	Wastren	Cd	5.02E+04	8
ASA Value: 5.0E+04 ug/L												
A106	Cd	3/11/86	A1XD00XX	1.35	50.2	mg/l	L	Liquor	Braun	Cd	5.02E+04	8*
A106	Cd	3/13/86	A2XD00XX	1.36	50.2	mg/l	L	Liquor	Braun	Cd	5.02E+04	8*
A106	Cd	3/13/86			0.0502	g/L	L	Drainable Liquid	Wastren	Cd	5.02E+04	8*
AX102	Cd	11/14/88			0.045	g/L	P	Supernate	Wastren	Cd	4.50E+04	
AX102	Cd	11/14/88	RAT-AX102-3		0.0004	moles/l	P	Supernate	Braun	Cd	4.50E+04	
BY105	Cd	11/20/90	R-8082		25	PPM	P	Supernatant	RAW	Cd	2.75E+04	
BY106	Cd	11/20/90	R8083		25	ppm	P	Supernatant	RAW	Cd	2.75E+04	
S111	Cd	8/25/78	1009-C	1.44	0.000162	moles/l	P	Supernate	Braun	Cd	1.82E+04	
S111	Cd	8/25/78	1009-C	1.46	0.000162	moles/l	P	Supernate	Braun	Cd	1.82E+04	
S111	Cd	8/25/78		1.46	0.000162	M	P	Supernate	RAW	Cd	1.82E+04	
S111	Cd	8/25/78	RAT-S111-3	1.5	0.000154	moles/l	P	Supernate	Braun	Cd	1.73E+04	
S111	Cd	8/25/78		1.5	0.000154	M	P	Supernate	RAW	Cd	1.73E+04	
BX105	Cd	3/4/86	82XD00XX	1.29	14.4	mg/l	L	Liquor	Braun	Cd	1.44E+04	
BX105	Cadmium	5/19/87	B2XDXXXX		14.4	mg/L	L	Drainable Liquor	RAW	Cd	1.44E+04	
BX105	Cadmium	5/19/87	B2XDXXXX		14.4	mg/L	L	Drainable Liquor	RAW	Cd	1.44E+04	
BX105	Cd	3/4/86			0.0144	g/L	P	Supernate	Wastren	Cd	1.44E+04	
BX105	Cadmium	5/19/87	B1XDXXXX		11.4	mg/L	L	Drainable Liquor	RAW	Cd	1.14E+04	
BX105	Cadmium	5/19/87	B1XDXXXX		11.4	mg/L	L	Drainable Liquor	RAW	Cd	1.14E+04	
BX104	Cd	2/14/86	71XD00XX	1.31	7.519	mg/l	L	Liquor	Braun	Cd	7.52E+03	
TX118	Cd	10/16/81	RAT-TX118-5		4.99E-05	moles/l	P	Supernate	Braun	Cd	5.61E+03	
TX118	Cd	10/16/81			4.99E-05	M	L		RAW	Cd	5.61E+03	
BX104	Cd	2/26/86	72XD00XX	1.21	4.953	mg/l	L	Liquor	Braun	Cd	4.95E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cadmium Single-Shell Tank Liquids [Sketch ES-VAL-CC09]
ASA Value: 5.0E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX104	Cd	2/26/86			0.00495	g/L	L	Drainable Liquid	Wastren	Cd	4.95E + 03	
TX118	Cd	10/16/81			0.00406	g/L	P	Supernate	Wastren	Cd	4.06E + 03	
TX118	Cd	10/16/81	RAT-TX118-4		3.61E-05	moles/l	P	Supernate	Braun	Cd	4.06E + 03	
A102	Cd	3/6/86	91XDOOXX	1.52	3.3	mg/l	L	Liquor	Braun	Cd	3.30E + 03	
A102	Cadmium	5/19/87	91XDXXXX		3.3	mg/L	L	Drainable Liquor	RAW	Cd	3.30E + 03	
A102	Cadmium	5/19/87	91XDXXXX		3.3	mg/L	L	Drainable Liquor	RAW	Cd	3.30E + 03	
BY103	Cd	6/3/91	R-8088	1.45	2	ppm	P	Supernate	Braun	Cd	2.90E + 03	
BY103	Cd	6/3/91	R-8088	1.45	2	ppm	P	Supernatant	RAW	Cd	2.90E + 03	
A102	Cd	3/8/86	92XDOOXX	1.51	2.75	mg/l	L	Liquor	Braun	Cd	2.75E + 03	
SX101	Cd	4/26/89			0.00225	g/L	L	Drainable Liquid	Wastren	Cd	2.25E + 03	
SX101	Cd	4/26/89	R-4884	1.11	0.00002	moles/l	P	Supernate	Braun	Cd	2.25E + 03	
BY103	Cd	11/14/90			2	ppm	P	Supernatant	RAW	Cd	2.20E + 03	
BY103	Cd	6/3/91			0.00138	g/L	L	Drainable Liquid	Wastren	Cd	1.38E + 03	
BX105	Cd	3/3/86	81XDOOXX	1.29	1.14	mg/l	L	Liquor	Braun	Cd	1.14E + 03	
C103	Cd	6/3/91	R-8108	1.07	1	ppm	P	Supernate	Braun	Cd	1.07E + 03	
C103	Cd	4/27/90	8108	1.07	1	ppm	P	supernate	RAW	Cd	1.07E + 03	
C103	Cd	6/3/91	R-8109	1.06	1	ppm	P	Supernate	Braun	Cd	1.06E + 03	
C103	Cd	6/3/91			0.000935	g/L	P	Supernate	Wastren	Cd	9.35E + 02	
c110	Cadmium	4/23/92	B08VM5	1	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VM5	1	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.707	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VM5	1	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VM5	1	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.707	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.07E + 02	
TY104	Cd	8/6/85	211DXXXX	1.16	0.5	mg/L	L	Drainable Liquor	RAW	Cd	5.00E + 02	
TY104	Cd	8/6/85	232DXXXX	1.21	0.5	mg/L	L	Drainable Liquor	RAW	Cd	5.00E + 02	
TY104	Cd	8/12/85			0.0005	g/L	P	Supernate	Wastren	Cd	5.00E + 02	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Liquids [Sketch ES-VAL-CC09]
 ASA Value: 5.0E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C110	Cd	11/1/91	1	1.1	0.357	ug/ml	L	core 38 seg. 4	RAW	Cd	3.57E+02	
C110	Cd	11/1/91	2	1.1	0.357	ug/ml	L	core 38 seg. 4	RAW	Cd	3.57E+02	
C110	Cd	11/1/91	1	1.18	0.357	ug/ml	L	core 39 seg. 3	RAW	Cd	3.57E+02	
C110	Cd	11/1/91	2	1.18	0.357	ug/ml	L	core 39 seg. 3	RAW	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.357	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.357	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VP9	1.1	0.357	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.357	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.57E+02	
c110	Cadmium	4/23/92	B08VH6	1.18	0.357	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.57E+02	
C110	Cd	11/1/91	1	1	0.35	ug/ml	L	core 37 seg. 3	RAW	Cd	3.50E+02	
C110	Cd	11/1/91	2	1	0.35	ug/ml	L	core 37 seg. 3	RAW	Cd	3.50E+02	
c110	Cadmium	4/23/92	B08VM5	1	0.35	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.50E+02	
c110	Cadmium	4/23/92	B08VM5	1	0.35	ug/mL	L	DUPLICATE RESULT	TCD	Cd	3.50E+02	
c110	Cadmium	4/23/92	B08VM5	1	0.35	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.50E+02	
c110	Cadmium	4/23/92	B08VM5	1	0.35	ug/mL	L	PRIMARY RESULT	TCD	Cd	3.50E+02	
t104	Cadmium	8/26/92	B08TQ7	1.1	0.278	ug/mL	L	PRIMARY RESULT	TCD	Cd	2.78E+02	
TY104	Cd	8/6/85	241DXXXX	1.18	0.25	mg/L	L	Drainable Liquor	RAW	Cd	2.50E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
t107	Cadmium	3/1/93	B08V16	1.02	0.07	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.00E+01	
t107	Cadmium	3/1/93	B08V16	1.02	0.07	ug/mL	L	DUPLICATE RESULT	TCD	Cd	7.00E+01	
t107	Cadmium	3/1/93	B08V16	1.02	0.07	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.00E+01	
t107	Cadmium	3/1/93	B08V16	1.02	0.07	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.00E+01	
t107	Cadmium	3/1/93	B08V58	1.2	0.07	ug/mL	L	PRIMARY RESULT	TCD	Cd	7.00E+01	
C106	Cd	4/14/87		1.22	25.2	uG/L	L		RAW	Cd	2.52E+01	
t107	Cadmium	3/1/93	B08VB5	1.1	0.175	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.75E-01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
ASA Value: 1.7E+06 ug/L												
AX104	Cd	9/15/77			1.69	g/L	G	Sludge	Wastren	Cd	1.69E+06	*
AX104	Cd	9/15/77	JS-25		0.015	moles/l	G	Sludge	Braun	Cd	1.69E+06	
C107	Cd	8/2/77	T-8110-13		0.015	moles/l	G	Sludge	Braun	Cd	1.69E+06	
AX104	Cd	9/15/77	148JS#25 AL#2385		0.015	M	S		RAW	Cd	1.69E+06	
C104	Cd	4/15/86			1.55	g/L	G	Sludge	Wastren	Cd	1.55E+06	
C104	Cd	4/15/86	D1XCOOXX	1.21	1280	ugm/gm	G	Sludge/Composite	Braun	Cd	1.55E+06	
t102	Cadmium	3/1/93	BOB732	1.32	1001	ug/g	S	PRIMARY RESULT	TCD	Cd	1.32E+06	
t102	Cadmium	3/1/93	BOB732	1.32	872	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.15E+06	
C107	Cd	8/2/77			0.01	M	S	Solids	RAW	Cd	1.12E+06	
U110	Cadmium	12/1/89	Core 5 Segment 3	1.04	768	ug/g	I	DUPLICATE	U110 Core Dat	Cd	7.99E+05	
C106	Cd	7/1/77	5		461	mg/kg	S		RAW	Cd	7.38E+05	
C103	Cd	5/14/86	F2XCOOXX	1.54	448	ugm/gm	G	Sludge/Composite	Braun	Cd	6.90E+05	
C103	Cd	5/8/87	F1XCXXXX	1.54	448	ug/g	I	Composite	RAW	Cd	6.90E+05	
A106	Cd	10/5/77	JS-30	1.51	0.0061	moles/l	G	Sludge	Braun	Cd	6.86E+05	
A106	Cd	10/5/77	JS-31	1.51	0.006	moles/l	G	Sludge	Braun	Cd	6.74E+05	
C103	Cd	5/8/87	F1XCXXXX	1.13	570	ug/g	I	Composite	RAW	Cd	6.44E+05	
C103	Cd	5/7/86	F1XCOOXX	1.13	570	ugm/gm	G	Sludge/Composite	Braun	Cd	6.44E+05	
C104	Cd	8/23/77	9172-A		0.0053	moles/l	G	Sludge	Braun	Cd	5.96E+05	
C104	Cd	8/23/77	9172		0.0053	M	G	Sludge	RAW	Cd	5.96E+05	
C106	Cd	5/19/86			370	ug/g	I	Composite	RAW	Cd	5.92E+05	
C106	Cd	5/19/86	G1XCOOXX	1.43	370	ugm/gm	G	Sludge/Composite	Braun	Cd	5.29E+05	
C106	Cd	4/14/87		1.43	370	ug/g	S		RAW	Cd	5.29E+05	
C106	Cd	4/17/87	G1xcxxxxR-1	1.43	370	ug/g	I	Composite	RAW	Cd	5.29E+05	
C107	Cd	8/2/77	T-8110-14		0.0047	moles/l	G	Sludge	Braun	Cd	5.28E+05	
T102	Cd	3/1/93	93-087755	1.79	258	ugm/gm	G	Sludge/Composite	Braun	Cd	4.62E+05	
U103	Cd	8/15/77	8793		0.0041	moles/l	A	Salts	Braun	Cd	4.61E+05	
U103	Cd	8/15/77			0.0041	M	A	Salt	RAW	Cd	4.61E+05	
T102	Cd	5/4/93	Core 55		258	ug/g	I	core segment	RAW	Cd	4.13E+05	
S111	Cd	9/18/80			0.403	g/L	G	Sludge	Wastren	Cd	4.03E+05	
C104	Cd	8/23/77	9172-B		0.0033	moles/l	G	Sludge	Braun	Cd	3.71E+05	
C104	Cd	8/23/77	9172		0.0033	M	G	Sludge	RAW	Cd	3.71E+05	
S111	Cd	9/18/80	RAT-S111-5		0.023	wt. %	S	Solids	Braun	Cd	3.68E+05	
B110	Cadmium	4/1/90	Core Composite 3	1.36	256.6484	ug/g	I	PRIMARY	B110 Core Data	Cd	3.49E+05	
t102	Cadmium	3/1/93	BOB732	1.32	258	ug/g	S	PRIMARY RESULT	TCD	Cd	3.41E+05	
C106	Cd	9/1/80	4		210	mg/kg	S		RAW	Cd	3.36E+05	
TX118	Cd	10/16/81	RAT-TX118-6		0.0204	wt. %	S	Supernate/Solids	Braun	Cd	3.26E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
TX118	Cd	10/16/81			0.02	wt%	S		RAW	Cd	3.20E+05		
t102	Cadmium	3/1/93	BOB732	1.32	239	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.15E+05		
C110	Cd	8/31/77	T-9501-34		0.0027	moles/l	G	Sludge	Braun	Cd	3.04E+05		
C110	Cd	6/10/77	9501		0.0027	M	G	Sludge	RAW	Cd	3.04E+05		
C103	Cd	5/7/86	F1XCOOXX	1.13	219	ugm/gm	G	Sludge/Composite	Braun	Cd	2.47E+05		
C105	Cd	4/11/86	C1XCOOXX	1.55	158	ugm/gm	G	Sludge/Composite	Braun	Cd	2.45E+05		
C105	Cd	5/8/87		1.55	158	ug/g	I	Composite	RAW	Cd	2.45E+05		
U110	Cadmium	12/1/89	Core 5 Segment 4		142	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.27E+05		
B110	Cadmium	4/1/90	Core Composite 3	1.36	163.7661	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.23E+05		
U110	Cadmium	12/1/89	Core 5 Segment 4		130	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.08E+05		
B110	Cadmium	4/1/90	CORE 3 SEGMENT 5	1.3	154.7117	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.01E+05		
B110	Cadmium	4/1/90	Core Composite 2	1.33	147.8467	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.97E+05		
B110	Cadmium	4/1/90	CORE 3 SEGMENT 5	1.3	150.0234	ug/g	I	PRIMARY	B110 Core Data	Cd	1.95E+05		
BY104	Cd	11/12/92			0.172	g/L	K	Saltcake	Wastren	Cd	1.72E+05		
B110	Cadmium	4/1/90	Core Composite 2	1.33	129.0725	ug/g	I	PRIMARY	B110 Core Data	Cd	1.72E+05		
BY104	Cd	11/12/92	R-1773		98	ugm/gm	T	Crust	Braun	Cd	1.57E+05		
BY104	Cd	10/26/92	riser 5		98	ug/g	S	fusion digestion	RAW	Cd	1.57E+05		
A102	Cd	3/8/86	92XCOOXX	1.66	84.9	ugm/gm	G	Sludge/Composite	Braun	Cd	1.41E+05		
A102	Cd	1/5/88	92xcooxx R-4	1.66	84.9	ug/g	I	Composite Composite	RAW	Cd	1.41E+05		
C105	Cd	4/1/90			0.14	g/L	G	Sludge	Wastren	Cd	1.40E+05		
C102	Cd	12/1/86	RAT-C102-2		83.8	ugm/gm	I	Composite	Braun	Cd	1.34E+05		
C102	Cd	7/10/86	E1XCOOXM		83.8	ugm/gm	G	Sludge/Composite	Braun	Cd	1.34E+05		
C102	Cd	6/17/87			83.8	ug/g	S	PARR	RAW	Cd	1.34E+05		
C102	Cd	1/21/88	E1XCOOXM		83.8	ug/g	S	PARR	RAW	Cd	1.34E+05		
B110	Cadmium	4/1/90	CORE 2 SEGMENT 4	1.28	101.2846	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.30E+05		
B110	Cadmium	4/1/90	CORE 4 SEGMENT 2	1.3	99.69015	ug/g	I	PRIMARY	B110 Core Data	Cd	1.30E+05		
C105	Cd	2/1/91			80	mg/kg	S	KOH Fusion	RAW	Cd	1.28E+05		
C102	Cd	2/1/91			80	mg/kg	S	KOH Fusion	RAW	Cd	1.28E+05		
B110	Cadmium	4/1/90	CORE 1 SEGMENT 4	1.3	91.33547	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.19E+05		
A103	Cadmium	4/3/86	B2XCOOXX	1.35	82.9	ugm/gm	G	Sludge/Composite	Braun	Cd	1.12E+05		
A103	Cd	3/3/87	B2xcxxxx R-12	1.35	82.9	ug/g	I	Composite Composite	RAW	Cd	1.12E+05		
U110	Cadmium	12/1/89	Core 12 Segment 2	1.77	62	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.10E+05		
A102	Cd	3/8/86	92XCOOXX	1.66	65.6	ugm/gm	G	Sludge/Composite	Braun	Cd	1.09E+05		
U110	Cadmium	12/1/89	Core 12 Segment 2	1.77	59	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.04E+05		
A103	Cadmium	3/26/86	B1XCOOXX	1.34	76.4	ugm/gm	G	Sludge/Composite	Braun	Cd	1.02E+05		
A103	Cd	2/24/87	B1xcooxx R-17	1.34	76.4	ug/g	I	Composite Composite	RAW	Cd	1.02E+05		
BX105	Cadmium	3/3/86	81XCOOXX	1.58	63.5	ugm/gm	G	Sludge/Composite	Braun	Cd	1.00E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	
BX105	Cd	1/5/88	81xcxxxxR-4	1.58	63.5	ug/g	I	Composite	RAW	Cd	1.00E+05	
TY106	Cd	9/4/85		1.31	75.789	ug/g	I	core composite	RAW	Cd	9.93E+04	
B110	Cadmium	4/1/90	CORE 3 SEGMENT 3	1.3	76.29038	ug/g	I	DUPLICATE	B110 Core Data	Cd	9.92E+04	
B110	Cadmium	4/1/90	Core Composite 9	1.32	74.63002	ug/g	I	PRIMARY	B110 Core Data	Cd	9.85E+04	
BX105	Cadmium	3/3/86	81XCOOXX	1.58	60.3	ugm/gm	G	Sludge/Composite	Braun	Cd	9.53E+04	
B110	Cadmium	4/1/90	Core Composite 9	1.32	72.14235	ug/g	I	DUPLICATE	B110 Core Data	Cd	9.52E+04	
B110	Cadmium	4/1/90	Core Composite 3	1.36	68.43958	ug/g	I	PRIMARY	B110 Core Data	Cd	9.31E+04	
U110	Cadmium	12/1/89	Core Composite 8		58	ug/g	I	DUPLICATE	U110 Core Dat	Cd	9.28E+04	
U110	Cadmium	12/1/89	Core 5 Segment 3	1.04	89	ug/g	I	PRIMARY	U110 Core Dat	Cd	9.26E+04	
U110	Cadmium	12/1/89	Core Composite 13	1.3	71	ug/g	I	PRIMARY	U110 Core Dat	Cd	9.23E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	52	ug/g	I	DUPLICATE	U110 Core Dat	Cd	8.01E+04	
SX103	Cd	10/10/77			0.0787	g/L	G	Sludge	Wastren	Cd	7.87E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	61	ug/g	I	DUPLICATE	U110 Core Dat	Cd	7.87E+04	
SX103	Cd	10/10/77	1104	1.5	0.0007	moles/l	S	Solids	Braun	Cd	7.87E+04	
SX103	Cd	10/10/77	1104	2	0.0007	moles/l	S	Solids	Braun	Cd	7.87E+04	
SX103	Cd	10/10/77	1104		0.0007	M	A	Salt	RAW	Cd	7.87E+04	
C106	Cd	7/22/88			48	mg/kg	G	Sludge	RAW	Cd	7.68E+04	
C106	Cd	8/1/88	2		48	mg/kg	S		RAW	Cd	7.68E+04	
U110	Cadmium	12/1/89	Core Composite 13	1.3	57	ug/g	I	DUPLICATE	U110 Core Dat	Cd	7.41E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	52	ug/g	I	DUPLICATE	U110 Core Dat	Cd	7.38E+04	
B110	Cadmium	4/1/90	Core Composite 3	1.36	53.77395	ug/g	I	DUPLICATE	B110 Core Data	Cd	7.31E+04	
T104	Cd	9/18/80	RAT-T104-2	1.307	0.00552	wt. %	G	Sludge	Braun	Cd	7.21E+04	
T104	Cd	9/18/80			0.0721	g/L	G	Sludge	Wastren	Cd	7.21E+04	
U110	Cadmium	12/1/89	Core Composite 8		45	ug/g	I	PRIMARY	U110 Core Dat	Cd	7.20E+04	
A106	Cadmium	3/13/86	A2XCOOXX	1.54	45.9	ugm/gm	G	Sludge/Composite	Braun	Cd	7.07E+04	
A106	Cd	1/5/88	A2xcxxxx R-20	1.54	45.9	ug/g	I	Composite Composite	RAW	Cd	7.07E+04	
B110	Cadmium	4/1/90	Core Composite 1	1.36	51.10111	ug/g	I	DUPLICATE	B110 Core Data	Cd	6.95E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	41	ug/g	I	PRIMARY	U110 Core Dat	Cd	6.87E+04	
A102	Cd	3/6/86	91XCOOXX	1.52	44.9	ugm/gm	G	Sludge/Composite	Braun	Cd	6.82E+04	
A102	Cd	2/24/87	91xcxxx R-4	1.52	44.9	ug/g	I	Composite Composite	RAW	Cd	6.82E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	48	ug/g	I	PRIMARY	U110 Core Dat	Cd	6.82E+04	
C103	Cd	5/14/86	F2XCOOXX	1.54	43.9	ugm/gm	G	Sludge/Composite	Braun	Cd	6.76E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	43	ug/g	I	PRIMARY	U110 Core Dat	Cd	6.62E+04	
U110	Cadmium	12/1/89	Core 13 Segment 3	1.14	58	ug/g	I	DUPLICATE	U110 Core Dat	Cd	6.61E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	41.1	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.58E+04	
B111	Cd	4/15/93	93-4312H1		41	ugm/gm	G	Sludge	Braun	Cd	6.56E+04	
BY104	Cd	11/12/92	R-1775		41	ugm/gm	T	Crust	Braun	Cd	6.56E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY104	Cd	10/26/92	riser 10b		41	ug/g	S	fusion digestion	RAW	Cd	6.56E+04	
c112	Cadmium	3/1/92	B08DY1	2	32.5	ug/g	S	PRIMARY RESULT	TCD	Cd	6.50E+04	
U110	Cadmium	12/1/89	Core 13 Segment 3	1.14	57	ug/g	I	PRIMARY	U110 Core Dat	Cd	6.50E+04	
t107	Cadmium	3/1/93	B08V39	1.57	40.6	ug/g	S	PRIMARY RESULT	TCD	Cd	6.37E+04	
B110	Cadmium	4/1/90	Core Composite 1	1.36	46.23434	ug/g	I	PRIMARY	B110 Core Data	Cd	6.29E+04	
C102	Cd	6/17/87			38.7	ug/g	S	Acid/PARR	RAW	Cd	6.19E+04	
c112	Cadmium	3/1/92	B08DY1	2	30.9	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.18E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	41	ug/g	I	PRIMARY	U110 Core Dat	Cd	6.07E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	41	ug/g	I	DUPLICATE	U110 Core Dat	Cd	6.07E+04	
c112	Cadmium	3/1/92	B08DY1	2	29.8	ug/g	S	DUPLICATE RESULT	TCD	Cd	5.96E+04	
c112	Cadmium	3/1/92	B08DY1	2	29.8	ug/g	S	PRIMARY RESULT	TCD	Cd	5.96E+04	
c112	Cadmium	3/1/92	B08DY1	2	29.7	ug/g	S	PRIMARY RESULT	TCD	Cd	5.94E+04	
c112	Cadmium	3/1/92	B08DY1	2	29.3	ug/g	S	PRIMARY RESULT	TCD	Cd	5.86E+04	
c112	Cadmium	3/1/92	B08DY1	2	28.7	ug/g	S	DUPLICATE RESULT	TCD	Cd	5.74E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	34	ug/g	I	DUPLICATE	U110 Core Dat	Cd	5.70E+04	
c112	Cadmium	3/1/92	B08DY1	2	28	ug/g	S	PRIMARY RESULT	TCD	Cd	5.60E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	34.9	ug/g	S	PRIMARY RESULT	TCD	Cd	5.58E+04	
c112	Cadmium	3/1/92	B08DY1	2	27.7	ug/g	S	DUPLICATE RESULT	TCD	Cd	5.54E+04	
SX106	Cd	4/18/78	8301	1.37	0.004	wt. %	S	Supernate/Solids	Braun	Cd	5.48E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	42	ug/g	I	PRIMARY	U110 Core Dat	Cd	5.42E+04	
A106	Cd	3/13/86			0.0533	g/L	G	Sludge	Wastren	Cd	5.33E+04	
A106	Cadmium	3/13/86	A2XCOOXX	1.54	34.6	ugm/gm	G	Sludge/Composite	Braun	Cd	5.33E+04	
SX106	Cd	4/18/78	8301	1.33	0.004	wt. %	S	Supernate/Solids	Braun	Cd	5.32E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	51	ug/g	I	DUPLICATE	U110 Core Dat	Cd	5.30E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	34	ug/g	I	PRIMARY	U110 Core Dat	Cd	5.24E+04	
C102	Cd	7/10/86	E1XCOOXX	1.351	38.7	ugm/gm	G	Sludge/Composite	Braun	Cd	5.23E+04	
c112	Cadmium	3/1/92	B08DY1	2	26.1	ug/g	S	PRIMARY RESULT	TCD	Cd	5.22E+04	
TY106	Cd	7/31/85	111COO00	1.31	39.8	ugm/gm	G	Sludge/Composite	Braun	Cd	5.21E+04	
B110	Cadmium	4/1/90	Core Composite 18	1.37	37.97675	ug/g	I	DUPLICATE	B110 Core Data	Cd	5.20E+04	
A102	Cd	3/6/86	91XCOOXX	1.52	33.3	ugm/gm	G	Sludge/Composite	Braun	Cd	5.06E+04	
c112	Cadmium	3/1/92	B08DY1	2	25.3	ug/g	S	DUPLICATE RESULT	TCD	Cd	5.06E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	48	ug/g	I	PRIMARY	U110 Core Dat	Cd	4.99E+04	
c112	Cadmium	3/1/92	B08DY1	2	24.9	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.98E+04	
A106	Cadmium	3/11/86	A1XCOOXX	1.56	31.1	ugm/gm	G	Sludge/Composite	Braun	Cd	4.85E+04	
A106	Cd	1/5/88	A1xcxxxx R-17	1.56	31.1	ug/g	I	Composite Composite	RAW	Cd	4.85E+04	
B110	Cadmium	4/1/90	Core Composite 10	1.34	34.23234	ug/g	I	DUPLICATE	B110 Core Data	Cd	4.59E+04	
BX104	Cadmium	2/14/86	71XCOOXX	1.85	24.3	ugm/gm	G	Sludge/Composite	Braun	Cd	4.50E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
BX104	Cd	1/5/88	71xcxxxxR-1	1.85	24.3	ug/g	I	Composite	RAW	Cd	4.50E+04	
U110	Cd	11/29/89	89-072		28	ugm/gm	G	Sludge	Braun	Cd	4.48E+04	
BX105	Cadmium	3/4/86	82XCOOXX	1.79	25	ugm/gm	G	Sludge/Composite	Braun	Cd	4.48E+04	
BX105	Cd	1/5/88	82xcxxxxR-8	1.79	25	ug/g	I	Composite	RAW	Cd	4.48E+04	
b111	Cadmium	10/1/91	B08XB3	1.3	34	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.42E+04	
BX104	Cd	1/5/88	72xcxxxxR-8	1.76	25	ug/g	I	Composite	RAW	Cd	4.40E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	26.7	ug/g	S	PRIMARY RESULT	TCD	Cd	4.27E+04	
t107	Cadmium	3/1/93	B08VD8	1.42	29.5	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.19E+04	
t107	Cadmium	3/1/93	B08VD8	1.42	29.5	ug/g	S	PRIMARY RESULT	TCD	Cd	4.19E+04	
BX104	Cadmium	2/26/86	72XCOOXX	1.673	25	ugm/gm	G	Sludge/Composite	Braun	Cd	4.18E+04	
U110	Cadmium	12/1/89	Core 12 Segment 4	1.48	28	ug/g	I	PRIMARY	U110 Core Dat	Cd	4.14E+04	
U110	Cadmium	12/1/89	Core 7 Segment 1	1.78	23	ug/g	I	DUPLICATE	U110 Core Dat	Cd	4.09E+04	
S111	Cd	8/25/78	1001-C	1.27	0.0032	wt. %	S	Solids	Braun	Cd	4.06E+04	
TY104	Cd	8/6/85	241SOOOO	1.77	22.6	ugm/gm	G	Sludge/Composite	Braun	Cd	4.00E+04	
TY104	Cd	8/6/85	241SXXXX	1.77	22.6	ug/g	I	core composite	RAW	Cd	4.00E+04	
B110	Cadmium	4/1/90	Core Composite 10	1.34	29.34201	ug/g	I	PRIMARY	B110 Core Data	Cd	3.93E+04	
T104	Cd	11/13/79	RAT-T104-1	1.31	0.003	wt. %	G	Sludge	Braun	Cd	3.93E+04	
b111	Cadmium	10/1/91	B08XB3	1.3	30	ug/g	S	PRIMARY RESULT	TCD	Cd	3.90E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	24	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.84E+04	
TY104	Cd	8/14/85	251SOOOO	1.66	23	ugm/gm	G	Sludge/Composite	Braun	Cd	3.82E+04	
b111	Cadmium	10/1/91	B08XB3	1.3	29	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.77E+04	
U110	Cadmium	12/1/89	Core 15 Segment 4	1.31	28	ug/g	I	DUPLICATE	U110 Core Dat	Cd	3.67E+04	
b111	Cadmium	10/1/91	B08XB3	1.3	28	ug/g	S	PRIMARY RESULT	TCD	Cd	3.64E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	22.3	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.57E+04	
t107	Cadmium	3/1/93	B08VB9	1.19	29.6	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.52E+04	
t107	Cadmium	3/1/93	B08VB9	1.19	29.6	ug/g	S	PRIMARY RESULT	TCD	Cd	3.52E+04	
t107	Cadmium	3/1/93	B08VB9	1.19	29.6	ug/g	S	PRIMARY RESULT	TCD	Cd	3.52E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	21	ug/g	I	DUPLICATE	U110 Core Dat	Cd	3.52E+04	
b111	Cadmium	10/1/91	B08XB7	1.3	26	ug/g	S	PRIMARY RESULT	TCD	Cd	3.38E+04	
TY104	Cd	8/6/85	241SOOOO	1.77	18.8	ugm/gm	G	Sludge/Composite	Braun	Cd	3.33E+04	
t102	Cadmium	3/1/93	B0B732	1.32	25	ug/g	S	PRIMARY RESULT	TCD	Cd	3.30E+04	
B110	Cadmium	4/1/90	Core Composite 4	1.36	24.1281	ug/g	I	DUPLICATE	B110 Core Data	Cd	3.28E+04	
U110	Cadmium	12/1/89	Core 15 Segment 3	1.3	25	ug/g	I	DUPLICATE	U110 Core Dat	Cd	3.25E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	20.2	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.23E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	20	ug/g	S	PRIMARY RESULT	TCD	Cd	3.20E+04	
t105	Cadmium	5/28/93	B08WT4	2.01	15.9	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.20E+04	
A106	Cadmium	3/11/86	A1XCOOXX	1.56	19.9	ugm/gm	G	Sludge/Composite	Braun	Cd	3.10E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Cadmium	3/1/92	B08DN8	1.6	19.4	ug/g	S	PRIMARY RESULT	TCD	Cd	3.10E+04	
B110	Cadmium	4/1/90	CORE 1 SEGMENT 2	1.3	23.25581	ug/g	I	DUPLICATE	B110 Core Data	Cd	3.02E+04	
B110	Cadmium	4/1/90	CORE 1 SEGMENT 4	1.3	22.21674	ug/g	I	PRIMARY	B110 Core Data	Cd	2.89E+04	
b111	Cadmium	10/1/91	B08XB7	1.3	22	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.86E+04	
TY104	Cd	8/14/85	251S0000	1.66	16.4	ugm/gm	G	Sludge/Composite	Braun	Cd	2.72E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	16.7	ug/g	S	PRIMARY RESULT	TCD	Cd	2.67E+04	
B110	Cadmium	4/1/90	Core Composite 9	1.32	19.90134	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.63E+04	
B110	Cadmium	4/1/90	Core Composite 9	1.32	19.90134	ug/g	I	PRIMARY	B110 Core Data	Cd	2.63E+04	
t107	Cadmium	3/1/93	B08V39	1.57	16.7	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.62E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	16.3	ug/g	S	PRIMARY RESULT	TCD	Cd	2.61E+04	
b111	Cadmium	10/1/91	B08XB7	1.3	20	ug/g	S	PRIMARY RESULT	TCD	Cd	2.60E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	25	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.60E+04	
B110	Cadmium	4/1/90	CORE 4 SEGMENT 4	1.3	19.9551	ug/g	I		B110 Core Data	Cd	2.59E+04	
U110	Cd	12/4/89	89-084		16	ugm/gm	G	Sludge	Braun	Cd	2.56E+04	
C106	Cd	5/19/86		1.22	25.2	mg/L	I	Composite	RAW	Cd	2.52E+04	
B110	Cadmium	4/1/90	CORE 1 SEGMENT 5	1.3	19.33535	ug/g	I	PRIMARY	B110 Core Data	Cd	2.51E+04	
t102	Cadmium	3/1/93	BOB732	1.32	19	ug/g	S	PRIMARY RESULT	TCD	Cd	2.51E+04	
B110	Cadmium	4/1/90	Core Composite 18	1.37	17.96447	ug/g	I	PRIMARY	B110 Core Data	Cd	2.46E+04	
TY106	Cd	9/26/85			0.0246	g/L	G	Sludge	Wastren	Cd	2.46E+04	
TY106	Cd	9/26/85	161C0000	1.43	17.2	ugm/gm	G	Sludge/Composite	Braun	Cd	2.46E+04	
B110	Cadmium	4/1/90	Core Composite 18	1.37	17.88115	ug/g	I	PRIMARY	B110 Core Data	Cd	2.45E+04	
t105	Cadmium	5/28/93	B08WT4	2.01	12.1	ug/g	S	PRIMARY RESULT	TCD	Cd	2.43E+04	
B110	Cadmium	4/1/90	Core Composite 4	1.36	17.54771	ug/g	I	PRIMARY	B110 Core Data	Cd	2.39E+04	
U110	Cadmium	12/1/89	Core 12 Segment 4	1.48	16	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.37E+04	
c112	Cadmium	3/1/92	B08DN8	1.6	14.7	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.35E+04	
B110	Cadmium	4/1/90	CORE 1 SEGMENT 2	1.3	18.08786	ug/g	I	PRIMARY	B110 Core Data	Cd	2.35E+04	
b111	Cadmium	10/1/91	B08XB7	1.3	18	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.34E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	14.6	ug/g	S	PRIMARY RESULT	TCD	Cd	2.34E+04	
U110	Cadmium	12/1/89	Core 7 Segment 4	1.93	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.32E+04	
T105	Cd	10/26/93	RAT-T105-2B	2.01	11.5	ugm/gm	G	Sludge/Composite	Braun	Cd	2.31E+04	
B110	Cadmium	4/1/90	CORE 4 SEGMENT 3	1.3	17.66785	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.30E+04	
B110	Cadmium	4/1/90	CORE 4 SEGMENT 3	1.3	17.66785	ug/g	I	PRIMARY	B110 Core Data	Cd	2.30E+04	
TY104	Cd	8/6/85	232S0000	1.85	12.3	ugm/gm	G	Sludge/Composite	Braun	Cd	2.28E+04	
B110	Cadmium	4/1/90	CORE 4 SEGMENT 4	1.3	17.46071	ug/g	I		B110 Core Data	Cd	2.27E+04	
B110	Cadmium	4/1/90	Core Composite 18	1.37	16.26115	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.23E+04	
t105	Cadmium	5/28/93	B08WT4	2.01	11	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.21E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	13	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.18E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Cadmium	12/1/89	Core 6 Segment 4	1.8	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.16E+04	
U110	Cadmium	12/1/89	Core 7 Segment 3	1.53	14	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.14E+04	
U110	Cadmium	12/1/89	Core 7 Segment 1	1.78	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.14E+04	
b111	Cadmium	10/1/91	B08XB9	1	21	ug/g	S	PRIMARY RESULT	TCD	Cd	2.10E+04	
U110	Cadmium	12/1/89	Core 15 Segment 4	1.31	16	ug/g	I	PRIMARY	U110 Core Dat	Cd	2.10E+04	
U110	Cadmium	12/1/89	Core 6 Segment 2	1.59	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.07E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	12.9	ug/g	S	PRIMARY RESULT	TCD	Cd	2.06E+04	
C102	Cd	2/1/91	2		12.7	mg/kg	S	water leach	RAW	Cd	2.03E+04	
T111	Cd	8/7/92	J-398	0.88	23	ugm/gm	G	Sludge	Braun	Cd	2.02E+04	
t111	Cadmium	11/1/91	B08ST5	0.88	23	ug/g	S	PRIMARY RESULT	TCD	Cd	2.02E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	2.01E+04	
U110	Cadmium	12/1/89	Core 7 Segment 3	1.53	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.99E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	14	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.99E+04	
B110	Cadmium	4/1/90	Core Composite 1	1.36	14.60032	ug/g	I	PRIMARY	B110 Core Data	Cd	1.99E+04	
B110	Cadmium	4/1/90	Core Composite 1	1.36	14.60032	ug/g	I	PRIMARY	B110 Core Data	Cd	1.99E+04	
t102	Cadmium	3/1/93	B0B732	1.32	15	ug/g	S	PRIMARY RESULT	TCD	Cd	1.98E+04	
U110	Cadmium	12/1/89	Core 14 Segment 1	1.5	13	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.95E+04	
U110	Cadmium	12/1/89	Core 14 Segment 1	1.5	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.95E+04	
A103	Cadmium	4/3/86	B2XCOOXX	1.35	14.4	ugm/gm	G	Sludge/Composite	Braun	Cd	1.94E+04	
U110	Cadmium	12/1/89	Core 14 Segment 4	1.62	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.94E+04	
A103	Cd	4/3/86			0.0194	g/L	K	Saltcake	Wastren	Cd	1.94E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	15	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.94E+04	
U110	Cadmium	12/1/89	Core 7 Segment 4	1.93	10	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.93E+04	
C106	Cd	4/1/87	3		12	mg/kg	S		RAW	Cd	1.92E+04	
U110	Cadmium	12/1/89	Core Composite 8		12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.92E+04	
U110	Cadmium	12/1/89	Core 6 Segment 2	1.59	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.91E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	11.9	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.90E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	11.9	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.90E+04	
b111	Cadmium	10/1/91	B08XB9	1	19	ug/g	S	PRIMARY RESULT	TCD	Cd	1.90E+04	
U110	Cadmium	12/1/89	Core 7 Segment 2	1.46	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.90E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	11.6	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.86E+04	
t102	Cadmium	3/1/93	B0B732	1.32	14	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.85E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.85E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.85E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	11.3	ug/g	S	PRIMARY RESULT	TCD	Cd	1.81E+04	
b111	Cadmium	10/1/91	B08XB9	1	18	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.80E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	11.2	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.79E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Cadmium	5/28/93	B08WT2	0.89	20.1	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.79E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	20.5	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.78E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.78E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.78E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.78E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	17	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.77E+04	
U110	Cadmium	12/1/89	Core 13 Segment 4	1.46	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.75E+04	
TY101	Cd	9/11/85			0.0174	g/L	G	Sludge	Wastren	Cd	1.74E+04	
TY101	Cd	9/11/85	51XCOOOO	1.64	10.6	ugm/gm	G	Sludge/Composite	Braun	Cd	1.74E+04	
C106	Cd	5/19/86	G1XCOOXX	1.43	12	ugm/gm	G	Sludge/Composite	Braun	Cd	1.72E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.70E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.70E+04	
U110	Cadmium	12/1/89	Core Composite 12	1.42	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.70E+04	
U110	Cadmium	12/1/89	Core Composite 6	1.54	11	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.69E+04	
U110	Cadmium	12/1/89	Core Composite 13	1.3	13	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.69E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	19.1	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.66E+04	
U110	Cadmium	12/1/89	Core 15 Segment 2	1.27	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.65E+04	
B110	Cadmium	4/1/90	Core Composite 10	1.34	12.22584	ug/g	I	PRIMARY	B110 Core Data	Cd	1.64E+04	
t105	Cadmium	5/28/93	B08WT2	0.89	18.3	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.63E+04	
U110	Cadmium	12/1/89	Core Composite 14	1.48	11	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.63E+04	
U110	Cadmium	12/1/89	Core 6 Segment 4	1.8	9	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.62E+04	
U110	Cadmium	12/1/89	Core 14 Segment 4	1.62	10	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.62E+04	
U110	Cadmium	12/1/89	Core 13 Segment 4	1.46	11	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.61E+04	
U110	Cadmium	12/1/89	Core 7 Segment 2	1.46	11	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.61E+04	
b111	Cadmium	10/1/91	B08XB9	1	16	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.60E+04	
U110	Cadmium	12/1/89	Core Composite 8		10	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.60E+04	
U110	Cadmium	12/1/89	Core 6 Segment 3	1.22	13	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.59E+04	
TY104	Cd	8/6/85	232SOOOO	1.85	8.57	ugm/gm	G	Sludge/Composite	Braun	Cd	1.59E+04	
B110	Cadmium	4/1/90	Core Composite 2	1.33	11.73387	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.56E+04	
B110	Cadmium	4/1/90	Core Composite 2	1.33	11.73387	ug/g	I	PRIMARY	B110 Core Data	Cd	1.56E+04	
U110	Cadmium	12/1/89	Core Composite 13	1.3	12	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.56E+04	
B110	Cadmium	4/1/90	CORE 3 SEGMENT 3	1.3	11.92037	ug/g	I	PRIMARY	B110 Core Data	Cd	1.55E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.55E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.55E+04	
TY104	Cd	8/16/85	261SOOOO	1.48	10.3	ugm/gm	G	Sludge/Composite	Braun	Cd	1.52E+04	
TY104	Cd	8/6/85	261SXXXX	1.48	10.3	ug/g	I	core composite	RAW	Cd	1.52E+04	
U110	Cadmium	12/1/89	Core 15 Segment 2	1.27	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.52E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
B110	Cadmium	4/1/90	CORE 3 SEGMENT 5	1.3	11.72058	ug/g	I	PRIMARY	B110 Core Data	Cd	1.52E+04	
TY104	Cd	8/16/85			0.0152	g/L	G	Sludge	Wastren	Cd	1.52E+04	
U110	Cadmium	12/1/89	Core Composite 7	1.675	9	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.51E+04	
B110	Cadmium	4/1/90	Core Composite 4	1.36	10.96732	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.49E+04	
U110	Cadmium	12/1/89	Core 6 Segment 3	1.22	12	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.46E+04	
t102	Cadmium	3/1/93	B0B732	1.32	11	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.45E+04	
t102	Cadmium	3/1/93	B0B732	1.32	11	ug/g	S	PRIMARY RESULT	TCD	Cd	1.45E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	9	ug/g	S	PRIMARY RESULT	TCD	Cd	1.44E+04	
U110	Cadmium	12/1/89	Core 15 Segment 3	1.3	11	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.43E+04	
TY101	Cd	9/11/85	51XCO000	1.64	8.66	ugm/gm	G	Sludge/Composite	Braun	Cd	1.42E+04	
TY101	Cd	9/1/85		1.64	8.66	ug/g	I	core composite	RAW	Cd	1.42E+04	
U110	Cadmium	12/1/89	Core Composite 15	1.29	11	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.42E+04	
t107	Cadmium	3/1/93	B08V43	1.15	12.3	ug/g	S	PRIMARY RESULT	TCD	Cd	1.41E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	16.2	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.41E+04	
C102	Cd	2/1/91	1		8.56	mg/kg	S	water leach	RAW	Cd	1.37E+04	
c112	Cadmium	3/1/92	B08DN6	1.3	10.5	ug/g	S	PRIMARY RESULT	TCD	Cd	1.37E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	13	ug/g	I	PRIMARY	U110 Core Dat	Cd	1.35E+04	
t111	Cadmium	11/1/91	B08ST5	0.88	15.3	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.35E+04	
B110	Cadmium	4/1/90	Core Composite 3	1.36	9.777083	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.33E+04	
B110	Cadmium	4/1/90	Core Composite 1	1.36	9.733544	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.32E+04	
T111	Cd	8/7/92	J-466		8.25	ugm/gm	G	Sludge/Composite	Braun	Cd	1.32E+04	
B110	Cadmium	4/1/90	Core Composite 10	1.34	9.780669	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.31E+04	
TY103	Cd	8/21/85	32XCO000	1.7	7.62	ugm/gm	G	Sludge/Composite	Braun	Cd	1.30E+04	
TY103	Cd	9/1/85	32XCXXXX	1.7	7.62	ug/g	I	Core composite	RAW	Cd	1.30E+04	
B110	Cadmium	4/1/90	CORE 10 SEGMENT 5	1.36	9.433962	ug/g	I		B110 Core Data	Cd	1.28E+04	
B110	Cadmium	4/1/90	CORE 10 SEGMENT 5	1.36	9.433962	ug/g	I		B110 Core Data	Cd	1.28E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	14.5789	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.27E+04	
c112	Cadmium	3/1/92	B08DN6	1.3	9.7	ug/g	S	PRIMARY RESULT	TCD	Cd	1.26E+04	
t111	Cadmium	11/1/91	B08ST5	0.88	14.3	ug/g	S	PRIMARY RESULT	TCD	Cd	1.26E+04	
U110	Cadmium	12/1/89	Core 14 Segment 2	1.39	9	ug/g	I	DUPLICATE	U110 Core Dat	Cd	1.25E+04	
t111	Cadmium	11/1/91	B08ST5	0.88	14.1	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.24E+04	
B110	Cadmium	4/1/90	CORE 3 SEGMENT 3	1.3	9.536298	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.24E+04	
c112	Cadmium	3/1/92	B08DN6	1.3	9.5	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.24E+04	
B110	Cadmium	4/1/90	CORE 3 SEGMENT 5	1.3	9.376465	ug/g	I	DUPLICATE	B110 Core Data	Cd	1.22E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	14	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.22E+04	
b202	Cadmium	6/7/91	B08SP5	0.87	13.9674	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.22E+04	
c112	Cadmium	3/1/92	B08DN6	1.3	9.3	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.21E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Cadmium	3/1/92	B08DM7	1.6	7.5	ug/g	S	PRIMARY RESULT	TCD	Cd	1.20E+04	
U110	Cadmium	12/1/89	Core 12 Segment 3	1	12	ug/g	I	DUPLICATE	U110 Core Data	Cd	1.20E+04	
B110	Cadmium	4/1/90	Core Composite 4	1.36	8.773854	ug/g	I	PRIMARY	B110 Core Data	Cd	1.19E+04	
t107	Cadmium	3/1/93	B08VR2	1.735	6.83	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.19E+04	
t107	Cadmium	3/1/93	B08VB9	1.19	9.81	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.17E+04	
B110	Cadmium	4/1/90	CORE 10 SEGMENT 3	1.17	9.835259	ug/g	I		B110 Core Data	Cd	1.15E+04	
B110	Cadmium	4/1/90	CORE 10 SEGMENT 3	1.17	9.835259	ug/g	I		B110 Core Data	Cd	1.15E+04	
t107	Cadmium	3/1/93	B08V44	1.1	10.4	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.14E+04	
U110	Cadmium	12/1/89	Core Composite 5	1.04	11	ug/g	I	DUPLICATE	U110 Core Data	Cd	1.14E+04	
t105	Cadmium	5/28/93	B08WT4	2.01	5.67	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.14E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	7	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.12E+04	
U110	Cadmium	12/1/89	Core 14 Segment 2	1.39	8	ug/g	I	PRIMARY	U110 Core Data	Cd	1.11E+04	
U110	Cadmium	12/1/89	Core 12 Segment 3	1	11	ug/g	I	PRIMARY	U110 Core Data	Cd	1.10E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	6.8	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.09E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	6.7	ug/g	S	PRIMARY RESULT	TCD	Cd	1.07E+04	
t105	Cadmium	5/28/93	B08WT4	2.01	5.26	ug/g	S	PRIMARY RESULT	TCD	Cd	1.06E+04	
TY106	Cd	7/31/85	111C0000	1.31	8.04	ugm/gm	G	Sludge/Composite	Braun	Cd	1.05E+04	
c109	Cadmium	9/1/92	B08T16	1.3	8	ug/g	S	PRIMARY RESULT	TCD	Cd	1.04E+04	
c109	Cadmium	9/1/92	B08T16	1.3	8	ug/g	S	PRIMARY RESULT	TCD	Cd	1.04E+04	
c109	Cadmium	9/1/92	B08T16	1.3	8	ug/g	S	PRIMARY RESULT	TCD	Cd	1.04E+04	
c109	Cadmium	9/1/92	B08T16	1.3	8	ug/g	S	PRIMARY RESULT	TCD	Cd	1.04E+04	
T111	Cd	8/7/92	J-470		6.42	ugm/gm	G	Sludge/Composite	Braun	Cd	1.03E+04	
c112	Cadmium	3/1/92	B08DM7	1.6	6.4	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.02E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
TY104	Cd	8/16/85	261S0000	1.48	6.74	ugm/gm	G	Sludge/Composite	Braun	Cd	9.98E+03	
B110	Cadmium	4/1/90	Core Composite 3	1.36	7.332812	ug/g	I	PRIMARY	B110 Core Data	Cd	9.97E+03	
c112	Cadmium	3/1/92	B08DM7	1.6	6.1	ug/g	S	DUPLICATE RESULT	TCD	Cd	9.76E+03	
TY103	Cd	8/21/85	31XC0000	1.7	5.72	ugm/gm	G	Sludge/Composite	Braun	Cd	9.72E+03	
TY103	Cd	9/1/85	31XCXXXX	1.7	5.72	ug/g	I	Core composite	RAW	Cd	9.72E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	7.52	ug/g	S	PRIMARY RESULT	TCD	Cd	9.70E+03	
c109	Cadmium	9/1/92	B08T17	1.2	8	ug/g	S	DUPLICATE RESULT	TCD	Cd	9.60E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 3	1.29	7.363228	ug/g	I	DUPLICATE	B110 Core Data	Cd	9.50E+03	
c109	Cadmium	9/1/92	B08T16	1.3	7	ug/g	S	DUPLICATE RESULT	TCD	Cd	9.10E+03	
t107	Cadmium	3/1/93	B08V44	1.1	8.27	ug/g	S	PRIMARY RESULT	TCD	Cd	9.10E+03	
t107	Cadmium	3/1/93	B08V43	1.15	7.84	ug/g	S	PRIMARY RESULT	TCD	Cd	9.02E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	6.94	ug/g	S	PRIMARY RESULT	TCD	Cd	8.95E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	6.84	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.82E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TY105	Cd	9/13/85	61XC0000		5.47	ugm/gm	G	Sludge/Composite	Braun	Cd	8.75E+03	
t105	Cadmium	5/28/93	B08WT4	2.01	4.35	ug/g	S	PRIMARY RESULT	TCD	Cd	8.74E+03	
t107	Cadmium	3/1/93	B08V43	1.15	7.6	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.74E+03	
t107	Cadmium	3/1/93	B08V43	1.15	7.52	ug/g	S	PRIMARY RESULT	TCD	Cd	8.65E+03	
t107	Cadmium	3/1/93	B08V43	1.15	7.47	ug/g	S	PRIMARY RESULT	TCD	Cd	8.59E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	6.22	ug/g	S	PRIMARY RESULT	TCD	Cd	8.58E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	6.58	ug/g	S	PRIMARY RESULT	TCD	Cd	8.49E+03	
BX107	Cd	10/20/92	J927-AV		5.2583	ugm/gm	G	Sludge/Composite	Braun	Cd	8.41E+03	
c109	Cadmium	9/1/92	B08T17	1.2	7	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.40E+03	
c109	Cadmium	9/1/92	B08T17	1.2	7	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.40E+03	
U110	Cadmium	12/1/89	Core 14 Segment 3	1.4	6	ug/g	I	PRIMARY	U110 Core Dat	Cd	8.40E+03	
U110	Cadmium	12/1/89	Core 14 Segment 3	1.4	6	ug/g	I	DUPLICATE	U110 Core Dat	Cd	8.40E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	6.08	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.39E+03	
TY105	Cd	9/13/85			0.00837	g/L	G	Sludge	Wastren	Cd	8.37E+03	
TY105	Cd	9/13/85	61XC0000	1.53	5.47	ugm/gm	G	Sludge/Composite	Braun	Cd	8.37E+03	
t107	Cadmium	3/1/93	B08VB9	1.19	7.01	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.34E+03	
TY102	Cd	1/30/86	41XCXXXX	1.88	0.031563	g/gal	I	Core composite	RAW	Cd	8.33E+03	
TY102	Cd	9/9/85			0.00831	g/L	K	Saltcake	Wastren	Cd	8.31E+03	
TY102	Cd	9/9/85	41XC0000	1.88	4.42	ugm/gm	G	Sludge/Composite	Braun	Cd	8.31E+03	
TY102	Cd	1/30/86	41XCXXXX	1.88	4.42	ug/g	I	Core composite	RAW	Cd	8.31E+03	
TY103	Cd	8/21/85	32XC0000	1.7	4.87	ugm/gm	G	Sludge/Composite	Braun	Cd	8.28E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	6.41	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.27E+03	
t105	Cadmium	5/28/93	B08WT4	2.01	4.11	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.26E+03	
t107	Cadmium	3/1/93	B08V44	1.1	7.51	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.26E+03	
t105	Cadmium	5/28/93	B08WT4	2.01	4.1	ug/g	S	PRIMARY RESULT	TCD	Cd	8.24E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	5.92	ug/g	S	PRIMARY RESULT	TCD	Cd	8.17E+03	
t107	Cadmium	3/1/93	B08VR2	1.735	4.68	ug/g	S	PRIMARY RESULT	TCD	Cd	8.12E+03	
U203	Cd	12/4/78			0.008	g/L	G	Sludge	Wastren	Cd	8.00E+03	
t105	Cadmium	5/28/93	B08WT4	2.01	3.98	ug/g	S	DUPLICATE RESULT	TCD	Cd	8.00E+03	
t105	Cadmium	5/28/93	B08WT4	2.01	3.94	ug/g	S	PRIMARY RESULT	TCD	Cd	7.92E+03	
c109	Cadmium	9/1/92	B08T16	1.3	6	ug/g	S	DUPLICATE RESULT	TCD	Cd	7.80E+03	
U110	Cadmium	12/1/89	Core Composite 13	1.3	6	ug/g	I	PRIMARY	U110 Core Dat	Cd	7.80E+03	
U110	Cadmium	12/1/89	Core Composite 13	1.3	6	ug/g	I	DUPLICATE	U110 Core Dat	Cd	7.80E+03	
t107	Cadmium	3/1/93	B08V43	1.15	6.62	ug/g	S	DUPLICATE RESULT	TCD	Cd	7.61E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	7.7386	mg/kg	S	PRIMARY RESULT	TCD	Cd	7.58E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	7.7	mg/kg	S	PRIMARY RESULT	TCD	Cd	7.55E+03	
t107	Cadmium	3/1/93	B08V43	1.15	6.53	ug/g	S	DUPLICATE RESULT	TCD	Cd	7.51E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S111	Cd	8/25/78	1009-C	1.46	0.0005	wt. %	S	Solids	Braun	Cd	7.30E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	5.6	ug/g	S	PRIMARY RESULT	TCD	Cd	7.22E+03	
S111	Cd	8/25/78	1009-C	1.44	0.0005	wt. %	S	Solids	Braun	Cd	7.20E+03	
c109	Cadmium	9/1/92	B08T17	1.2	6	ug/g	S	PRIMARY RESULT	TCD	Cd	7.20E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	5.5	ug/g	S	PRIMARY RESULT	TCD	Cd	7.10E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	7.1615	mg/kg	S	DUPLICATE RESULT	TCD	Cd	7.02E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	5.43	ug/g	S	DUPLICATE RESULT	TCD	Cd	7.00E+03	
TY103	Cd	8/21/85			0.00698	g/L	G	Sludge	Wastren	Cd	6.98E+03	
BX107	Cd	10/20/92	J925-AV		4.3459	ugm/gm	G	Sludge/Composite	Braun	Cd	6.95E+03	
t107	Cadmium	3/1/93	B08V43	1.15	5.91	ug/g	S	PRIMARY RESULT	TCD	Cd	6.80E+03	
t107	Cadmium	3/1/93	B08VD9	1.305	5.19	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.77E+03	
t107	Cadmium	3/1/93	B08VB9	1.19	5.66	ug/g	S	PRIMARY RESULT	TCD	Cd	6.74E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	5.21	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.72E+03	
t107	Cadmium	3/1/93	B08V43	1.15	5.77	ug/g	S	PRIMARY RESULT	TCD	Cd	6.64E+03	
B110	Cadmium	4/1/90	Core Composite 1	1.36	4.866772	ug/g	I	DUPLICATE	B110 Core Data	Cd	6.62E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	4.78	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.60E+03	
t107	Cadmium	3/1/93	B08V43	1.15	5.72	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.58E+03	
S104	Cd	4/13/90			0.00656	g/L	G	Sludge	Wastren	Cd	6.56E+03	
t107	Cadmium	3/1/93	B08V43	1.15	5.66	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.51E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 3	1.29	4.908819	ug/g	I	PRIMARY	B110 Core Data	Cd	6.33E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 4	1.28	4.940711	ug/g	I	DUPLICATE	B110 Core Data	Cd	6.32E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 4	1.28	4.940711	ug/g	I	PRIMARY	B110 Core Data	Cd	6.32E+03	
t107	Cadmium	3/1/93	B08TZ3	0.95	6.65	ug/g	S	PRIMARY RESULT	TCD	Cd	6.32E+03	
s104	Cadmium	8/1/92	B08TJ4	1.6	3.93	mg/kg	S	PRIMARY RESULT	TCD	Cd	6.29E+03	
s104	Cadmium	8/1/92	B08TJ4		3.93	mg/kg	S	PRIMARY RESULT	TCD	Cd	6.29E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 5	1.28	4.826721	ug/g	I	DUPLICATE	B110 Core Data	Cd	6.18E+03	
B110	Cadmium	4/1/90	CORE 2 SEGMENT 5	1.28	4.826721	ug/g	I	PRIMARY	B110 Core Data	Cd	6.18E+03	
t107	Cadmium	3/1/93	B08TZ3	0.95	6.49	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.17E+03	
TY105	Cd	9/13/85	61XC0000		3.83	ugm/gm	G	Sludge/Composite	Braun	Cd	6.13E+03	
t107	Cadmium	3/1/93	B08V44	1.1	5.57	ug/g	S	PRIMARY RESULT	TCD	Cd	6.13E+03	
S104	Cd	6/24/93	F-2175		3.75	ugm/gm	G	Sludge	Braun	Cd	6.00E+03	
c109	Cadmium	9/1/92	B08T17	1.2	5	ug/g	S	PRIMARY RESULT	TCD	Cd	6.00E+03	
t107	Cadmium	3/1/93	B08TZ2	1.29	4.65	ug/g	S	DUPLICATE RESULT	TCD	Cd	6.00E+03	
BX107	Cd	10/20/92	J924-AV		3.68365	ugm/gm	G	Sludge/Composite	Braun	Cd	5.89E+03	
TY105	Cd	9/13/85	61XC0000	1.53	3.83	ugm/gm	G	Sludge/Composite	Braun	Cd	5.86E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	5.9	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.78E+03	
s104	Cadmium	8/1/92	B08TJ5	1.6	3.58	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.73E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Cadmium	8/1/92	B08TJ5		3.58	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.73E+03	
s104	Cadmium	8/1/92	B08TJ4	1.6	3.57	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.71E+03	
s104	Cadmium	8/1/92	B08TJ4		3.57	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.71E+03	
BX107	Cd	10/20/92	J926-AV		3.5115	ugm/gm	G	Sludge/Composite	Braun	Cd	5.62E+03	
t107	Cadmium	3/1/93	B08VF0	1.38	4.07	ug/g	S	DUPLICATE RESULT	TCD	Cd	5.62E+03	
s104	Cadmium	8/1/92	B08TF6	1.6	3.5	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	3.5	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TF6		3.5	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TL3		3.5	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TF6	1.6	3.5	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TF6		3.5	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.60E+03	
s104	Cadmium	8/1/92	B08TF7	1.6	3.47	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TL4	1.6	3.47	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TF7		3.47	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TL4		3.47	mg/kg	S	DUPLICATE RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TL4	1.6	3.47	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TL4		3.47	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.55E+03	
s104	Cadmium	8/1/92	B08TF7	1.6	3.45	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.52E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	3.45	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.52E+03	
s104	Cadmium	8/1/92	B08TF7		3.45	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.52E+03	
s104	Cadmium	8/1/92	B08TL3		3.45	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.52E+03	
b202	Cadmium	6/7/91	B08SM2	1.02	5.4	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.51E+03	
t107	Cadmium	3/1/93	B08VF0	1.38	3.99	ug/g	S	PRIMARY RESULT	TCD	Cd	5.51E+03	
s104	Cadmium	8/1/92	B08TJ5	1.6	3.43	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.49E+03	
s104	Cadmium	8/1/92	B08TJ5		3.43	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.49E+03	
t107	Cadmium	3/1/93	B08VF0	1.38	3.94	ug/g	S	PRIMARY RESULT	TCD	Cd	5.44E+03	
TY106	Cd	9/26/85	161COOOO	1.43	3.69	ugm/gm	G	Sludge/Composite	Braun	Cd	5.28E+03	
TY103	Cd	8/21/85	31XC0000	1.7	3.04	ugm/gm	G	Sludge/Composite	Braun	Cd	5.17E+03	
t107	Cadmium	3/1/93	B08VB9	1.19	4.17	ug/g	S	PRIMARY RESULT	TCD	Cd	4.96E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	4.8	mg/kg	S	PRIMARY RESULT	TCD	Cd	4.70E+03	
b202	Cadmium	6/7/91	B08SM2	1.02	4.5	mg/kg	S	PRIMARY RESULT	TCD	Cd	4.59E+03	
t104	Cadmium	8/26/92	B08S09	1.13	4.01	mg/kg	S	DUPLICATE RESULT	TCD	Cd	4.53E+03	
BX107	Cd	10/20/92	J925-AV		2.735	ugm/gm	G	Sludge/Composite	Braun	Cd	4.38E+03	
t107	Cadmium	3/1/93	B08VF0	1.38	3.1	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.28E+03	
t111	Cadmium	11/1/91	B08SV7	1.09	3.88	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.23E+03	
b202	Cadmium	6/7/91	B08SP6	0.98	4.3	mg/kg	S	PRIMARY RESULT	TCD	Cd	4.21E+03	
BX107	Cd	10/20/92	J927-AV		2.56	ugm/gm	G	Sludge/Composite	Braun	Cd	4.10E+03	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
t111	Cadmium	11/1/91	B08SV7	1.09	3.75	ug/g	S	PRIMARY RESULT	TCD	Cd	4.09E+03		
b202	Cadmium	6/7/91	B08SM2	1.02	4	mg/kg	S	PRIMARY RESULT	TCD	Cd	4.08E+03		
t111	Cadmium	11/1/91	B08SX5	1.06	3.81	ug/g	S	DUPLICATE RESULT	TCD	Cd	4.04E+03		
T111	Cd	8/7/92	J-408	1.09	3.7	ugm/gm	G	Sludge	Braun	Cd	4.03E+03		
bx107	Cadmium	6/1/92	B08SD6	0.996	4.029	ug/g	S	PRIMARY RESULT	TCD	Cd	4.01E+03		
s104	Cadmium	8/1/92	B08S46	1.6	2.41	mg/kg	S	DUPLICATE RESULT	TCD	Cd	3.86E+03		
s104	Cadmium	8/1/92	B08S46		2.41	mg/kg	S	DUPLICATE RESULT	TCD	Cd	3.86E+03		
bx107	Cadmium	6/1/92	B08SD6	0.996	3.8511	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.83E+03		
t111	Cadmium	11/1/91	B08SV7	1.09	3.51	ug/g	S	PRIMARY RESULT	TCD	Cd	3.83E+03		
TY104	Cd	8/6/85	251SXXXX	1.66	2.3	ug/g	I	core composite	RAW	Cd	3.82E+03		
bx107	Cadmium	6/1/92	B08SD6	0.996	3.7626	ug/g	S	PRIMARY RESULT	TCD	Cd	3.75E+03		
t111	Cadmium	11/1/91	B08SV7	1.09	3.38	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.68E+03		
t105	Cadmium	5/28/93	B08WT2	0.89	4.1	ug/g	S	PRIMARY RESULT	TCD	Cd	3.65E+03		
t111	Cadmium	11/1/91	B08SX5	1.06	3.42	ug/g	S	PRIMARY RESULT	TCD	Cd	3.63E+03		
t104	Cadmium	8/26/92	B08S09	1.13	3.08	mg/kg	S	PRIMARY RESULT	TCD	Cd	3.48E+03		
bx107	Cadmium	6/1/92	B08SD6	0.996	3.4929	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.48E+03		
bx107	Cadmium	6/1/92	B08SF0	1.326	2.59	ug/g	S	PRIMARY RESULT	TCD	Cd	3.44E+03		
t111	Cadmium	11/1/91	B08ST9	1.11	3.07	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.41E+03		
t111	Cadmium	11/1/91	B08SX5	1.06	3.21	ug/g	S	PRIMARY RESULT	TCD	Cd	3.40E+03		
T111	Cd	8/7/92	J-410	1.06	3.2	ugm/gm	G	Sludge	Braun	Cd	3.39E+03		
t111	Cadmium	11/1/91	B08ST9	1.11	3.04	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.37E+03		
t111	Cadmium	11/1/91	B08SX5	1.06	3.17	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.36E+03		
t111	Cadmium	11/1/91	B08ST9	1.11	3	ug/g	S	PRIMARY RESULT	TCD	Cd	3.33E+03		
B110	Cadmium	4/1/90	Core Composite 9	1.32	2.487667	ug/g	I	DUPLICATE	B110 Core Data	Cd	3.28E+03		
B110	Cadmium	4/1/90	Core Composite 9	1.32	2.487667	ug/g	I	PRIMARY	B110 Core Data	Cd	3.28E+03		
B110	Cadmium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	DUPLICATE	B110 Core Data	Cd	3.28E+03		
B110	Cadmium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	PRIMARY	B110 Core Data	Cd	3.28E+03		
bx107	Cadmium	6/1/92	B08SF0	1.326	2.47	ug/g	S	PRIMARY RESULT	TCD	Cd	3.28E+03		
T111	Cd	8/7/92	J-404	1.11	2.9	ugm/gm	G	Sludge	Braun	Cd	3.22E+03		
t104	Cadmium	8/26/92	B08S09	1.13	2.84	mg/kg	S	DUPLICATE RESULT	TCD	Cd	3.21E+03		
t111	Cadmium	11/1/91	B08ST9	1.11	2.89	ug/g	S	PRIMARY RESULT	TCD	Cd	3.21E+03		
B110	Cadmium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	DUPLICATE	B110 Core Data	Cd	3.12E+03		
BX107	Cd	10/20/92	J926-AV		1.93	ugm/gm	G	Sludge/Composite	Braun	Cd	3.09E+03		
bx107	Cadmium	6/1/92	B08SF0	1.326	2.27	ug/g	S	DUPLICATE RESULT	TCD	Cd	3.01E+03		
B110	Cadmium	4/1/90	Core Composite 4	1.36	2.193463	ug/g	I	DUPLICATE	B110 Core Data	Cd	2.98E+03		
BX107	Cd	10/20/92	J924-AV		1.86	ugm/gm	G	Sludge/Composite	Braun	Cd	2.98E+03		
t104	Cadmium	8/26/92	B08S09	1.13	2.63	mg/kg	S	PRIMARY RESULT	TCD	Cd	2.97E+03		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t111	Cadmium	11/1/91	B08SQ9	1.13	2.58	ug/g	S	PRIMARY RESULT	TCD	Cd	2.92E+03	
T111	Cd	8/7/92	J-414	1.13	2.58	ugm/gm	G	Sludge	Braun	Cd	2.92E+03	
bx107	Cadmium	6/1/92	B08SF0	1.326	2.17	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.88E+03	
t111	Cadmium	11/1/91	B08SQ9	1.13	2.47	ug/g	S	DUPLICATE RESULT	TCD	Cd	2.79E+03	
C102	Cd	2/1/91	2		1.4	mg/kg	S	water leach	RAW	Cd	2.24E+03	
b202	Cadmium	6/7/91	B08SM4	1.35	1.6	mg/kg	S	PRIMARY RESULT	TCD	Cd	2.16E+03	
T111	Cd	8/7/92	J-402	0.93	2.3	ugm/gm	G	Sludge	Braun	Cd	2.14E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	1.55	ug/g	S	PRIMARY RESULT	TCD	Cd	2.14E+03	
t111	Cadmium	11/1/91	B08ST7	0.93	2.28	ug/g	S	PRIMARY RESULT	TCD	Cd	2.12E+03	
s104	Cadmium	8/1/92	B08S50	1.6	1.26	mg/kg	S	DUPLICATE RESULT	TCD	Cd	2.02E+03	
s104	Cadmium	8/1/92	B08S50		1.26	mg/kg	S	DUPLICATE RESULT	TCD	Cd	2.02E+03	
s104	Cadmium	8/1/92	B08S50	1.6	1.25	mg/kg	S	PRIMARY RESULT	TCD	Cd	2.00E+03	
s104	Cadmium	8/1/92	B08S50		1.25	mg/kg	S	PRIMARY RESULT	TCD	Cd	2.00E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	1.41	ug/g	S	PRIMARY RESULT	TCD	Cd	1.95E+03	
t111	Cadmium	11/1/91	B08ST7	0.93	2.06	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.92E+03	
t111	Cadmium	11/1/91	B08ST7	0.93	2.06	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.92E+03	
t111	Cadmium	11/1/91	B08ST7	0.93	2.01	ug/g	S	PRIMARY RESULT	TCD	Cd	1.87E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	1.3	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.79E+03	
B110	Cadmium	4/1/90	Core Composite 18	1.37	1.195065	ug/g	I	PRIMARY	B110 Core Data	Cd	1.64E+03	
b202	Cadmium	6/7/91	B08SM4	1.35	1.2	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.62E+03	
s104	Cadmium	8/1/92	B08TL4	1.6	0.937	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
s104	Cadmium	8/1/92	B08TL4		0.937	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	0.917	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
s104	Cadmium	8/1/92	B08TL3		0.917	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
t107	Cadmium	3/1/93	B08VFO	1.38	1.05	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.45E+03	
s104	Cadmium	8/1/92	B08TF6	1.6	0.9	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.44E+03	
s104	Cadmium	8/1/92	B08TF6		0.9	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.44E+03	
s104	Cadmium	8/1/92	B08S50	1.6	0.888	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.42E+03	
s104	Cadmium	8/1/92	B08S50		0.888	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.42E+03	
t105	Cadmium	5/28/93	B08WT2	0.89	1.52	ug/g	S	DUPLICATE RESULT	TCD	Cd	1.35E+03	
b202	Cadmium	6/7/91	B08SM4	1.35	0.99	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.34E+03	
b202	Cadmium	6/7/91	B08SM4	1.35	0.9866	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.33E+03	
s104	Cadmium	8/1/92	B08S46	1.6	0.826	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.32E+03	
s104	Cadmium	8/1/92	B08S46		0.826	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.32E+03	
b202	Cadmium	6/7/91	B08SM4	1.35	0.94	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.27E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	0.754	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.21E+03	
s104	Cadmium	8/1/92	B08TL3		0.754	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.21E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Cadmium	8/1/92	B08S48	1.6	0.745	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.19E+03	
s104	Cadmium	8/1/92	B08S48		0.745	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.19E+03	
b202	Cadmium	6/7/91	B0BC06	0.99	1.2	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.19E+03	
s104	Cadmium	8/1/92	B08TF7	1.6	0.735	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.18E+03	
s104	Cadmium	8/1/92	B08TF7		0.735	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.18E+03	
s104	Cadmium	8/1/92	B08TF7	1.6	0.714	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	0.714	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TF7		0.714	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL3		0.714	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
BX107	Cd	10/20/92	J924-AV		0.7133	ugm/gm	G	Sludge/Composite	Braun	Cd	1.14E+03	
BX107	Cd	10/20/92	J926-AV		0.7133	ugm/gm	G	Sludge/Composite	Braun	Cd	1.14E+03	
BX107	Cd	10/20/92	J925-AV		0.713	ugm/gm	G	Sludge/Composite	Braun	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL4	1.6	0.713	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL4		0.713	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL3	1.6	0.713	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL4	1.6	0.713	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL3		0.713	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TL4		0.713	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
BX107	Cd	10/20/92	J927-AV		0.7112	ugm/gm	G	Sludge/Composite	Braun	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TF7	1.6	0.711	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TF6	1.6	0.711	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TF6		0.711	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TF7		0.711	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.14E+03	
s104	Cadmium	8/1/92	B08TJ5	1.6	0.708	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.13E+03	
s104	Cadmium	8/1/92	B08TJ5		0.708	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.13E+03	
s104	Cadmium	8/1/92	B08TJ5	1.6	0.707	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.13E+03	
s104	Cadmium	8/1/92	B08TJ5		0.707	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.13E+03	
s104	Cadmium	8/1/92	B08S48	1.6	0.7	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08TJ4	1.6	0.7	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08S48		0.7	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08TJ4		0.7	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08TJ4	1.6	0.7	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08TJ4		0.7	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.12E+03	
s104	Cadmium	8/1/92	B08S50	1.6	0.694	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.11E+03	
s104	Cadmium	8/1/92	B08S50		0.694	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.11E+03	
s104	Cadmium	8/1/92	B08TJ5	1.6	0.69	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.10E+03	
s104	Cadmium	8/1/92	B08TJ5		0.69	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.10E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
s104	Cadmium	8/1/92	B08TL4	1.6	0.687	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.10E+03			
s104	Cadmium	8/1/92	B08TL4		0.687	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.10E+03			
s104	Cadmium	8/1/92	B08TJ5	1.6	0.686	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.10E+03			
s104	Cadmium	8/1/92	B08TJ5		0.686	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.10E+03			
s104	Cadmium	8/1/92	B08S48	1.6	0.678	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08S48		0.678	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08TF6	1.6	0.677	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08TF6		0.677	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08TJ4	1.6	0.676	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08TJ4		0.676	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.08E+03			
s104	Cadmium	8/1/92	B08TF7	1.6	0.67	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08S46	1.6	0.67	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08S46		0.67	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08TF7		0.67	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08TF6	1.6	0.67	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08S46	1.6	0.67	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08S46		0.67	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08TF6		0.67	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08TJ4	1.6	0.667	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08TJ4		0.667	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.07E+03			
s104	Cadmium	8/1/92	B08S48	1.6	0.642	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.03E+03			
s104	Cadmium	8/1/92	B08S48		0.642	mg/kg	S	PRIMARY RESULT	TCD	Cd	1.03E+03			
b202	Cadmium	6/7/91	B08SM2	1.02	0.9804	mg/kg	S	DUPLICATE RESULT	TCD	Cd	1.00E+03			
B110	Cadmium	4/1/90	Core Composite 18	1.37	0.715811	ug/g	I	DUPLICATE	B110 Core Data	Cd	9.81E+02			
b202	Cadmium	6/7/91	B0BC06	0.99	0.9866	mg/kg	S	PRIMARY RESULT	TCD	Cd	9.77E+02			
b202	Cadmium	6/7/91	B08SM2	1.02	0.84	mg/kg	S	PRIMARY RESULT	TCD	Cd	8.57E+02			
b202	Cadmium	6/7/91	B08SM4	1.35	0.6332	mg/kg	S	DUPLICATE RESULT	TCD	Cd	8.55E+02			
b202	Cadmium	6/7/91	B0BC06	0.99	0.83	mg/kg	S	PRIMARY RESULT	TCD	Cd	8.22E+02			
b202	Cadmium	6/7/91	B0BC06	0.99	0.83	mg/kg	S	PRIMARY RESULT	TCD	Cd	8.22E+02			
b202	Cadmium	6/7/91	B08SP8	0.98	0.82	mg/kg	S	PRIMARY RESULT	TCD	Cd	8.04E+02			
s104	Cadmium	8/1/92	B08TL3	1.6	0.803	ug/mL	S	PRIMARY RESULT	TCD	Cd	8.03E+02			
s104	Cadmium	8/1/92	B08TL3		0.803	ug/mL	S	PRIMARY RESULT	TCD	Cd	8.03E+02			
b202	Cadmium	6/7/91	B0BC06	0.99	0.81	mg/kg	S	PRIMARY RESULT	TCD	Cd	8.02E+02			
b202	Cadmium	6/7/91	B08SK0	0.93	0.84	mg/kg	S	PRIMARY RESULT	TCD	Cd	7.81E+02			
b202	Cadmium	6/7/91	B08SK0	0.93	0.8013	mg/kg	S	DUPLICATE RESULT	TCD	Cd	7.45E+02			
b202	Cadmium	6/7/91	B08SP8	0.98	0.75	mg/kg	S	PRIMARY RESULT	TCD	Cd	7.35E+02			
b202	Cadmium	6/7/91	B08SM2	1.02	0.6815	mg/kg	S	PRIMARY RESULT	TCD	Cd	6.95E+02			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Single-Shell Tank Solids [Sketch ES-VAL-CC10]
 ASA Value: 1.7E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
b202	Cadmium	6/7/91	B08SK0	0.93	0.71	mg/kg	S	PRIMARY RESULT	TCD	Cd	6.60E+02	
b202	Cadmium	6/7/91	B0BC06	0.99	0.6332	mg/kg	S	DUPLICATE RESULT	TCD	Cd	6.27E+02	
b202	Cadmium	6/7/91	B08SP8	0.98	0.61	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.98E+02	
b202	Cadmium	6/7/91	B08SP8	0.98	0.6094	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.97E+02	
b202	Cadmium	6/7/91	B08SK0	0.93	0.6	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.58E+02	
b202	Cadmium	6/7/91	B08SK0	0.93	0.5639	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.24E+02	
b202	Cadmium	6/7/91	B08SK0	0.93	0.56	mg/kg	S	PRIMARY RESULT	TCD	Cd	5.21E+02	
b202	Cadmium	6/7/91	B08SP8	0.98	0.48	mg/kg	S	PRIMARY RESULT	TCD	Cd	4.70E+02	
b202	Cadmium	6/7/91	B08SP8	0.98	0.3922	mg/kg	S	DUPLICATE RESULT	TCD	Cd	3.84E+02	
C102	Cd	2/1/91	1		0.18	mg/kg	S	water leach	RAW	Cd	2.88E+02	
TY105	Cd	9/1/85	61XCXXXX	1.53	0.25	mg/L	I	core composite	RAW	Cd	2.50E+02	
B110	Cd	6/21/90	89-0977		0.15	ug/ml	G	Acid Results	RAW	Cd	1.50E+02	
s104	Cadmium	8/1/92	B08TL3	1.6	0.07	ug/mL	S	DUPLICATE RESULT	TCD	Cd	7.00E+01	
s104	Cadmium	8/1/92	B08TL3		0.07	ug/mL	S	DUPLICATE RESULT	TCD	Cd	7.00E+01	
s104	Cadmium	8/1/92	B08TL3	1.6	0.07	ug/mL	S	PRIMARY RESULT	TCD	Cd	7.00E+01	
s104	Cadmium	8/1/92	B08TL3		0.07	ug/mL	S	PRIMARY RESULT	TCD	Cd	7.00E+01	
C102	Cd	2/1/91	2		0.068	ug/mL	S	water leach	RAW	Cd	6.80E+01	
C102	Cd	2/1/91	2		0.068	ug/mL	S	water leach	RAW	Cd	6.80E+01	
C102	Cd	2/1/91	1		0.009	ug/mL	S	water leach	RAW	Cd	9.00E+00	
C102	Cd	2/1/91	1		0.009	ug/mL	S	water leach	RAW	Cd	9.00E+00	
A103	Cadmium	3/26/86	B1XC00XX	1.34	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	
BX104	Cadmium	2/26/86	72XC00XX	1.673	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	
BX104	Cadmium	2/14/86	71XC00XX	1.85	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	
BX105	Cadmium	3/4/86	82XC00XX	1.79	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	
C105	Cd	4/11/86	C1XC00XX	1.55	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	
TY102	Cd	9/9/85	41XC0000	1.88	0	ugm/gm	G	Sludge/Composite	Braun	Cd	0.00E+00	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Liquids [Sketch ES-VAL-CC11]
ASA Value: 1.75E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BY101	Ce(NO3)2	12/20/55			0.03	M	L		RAW	Ce	4.20E+06	11
BY102	Ce(NO3)2	12/20/55			0.03	M	L		RAW	Ce	4.20E+06	11
BY103	Ce(NO3)2	12/20/55			0.03	M	L		RAW	Ce	4.20E+06	11
ASA Value: 1.75E+06 ug/L												
BY106	Ce	6/3/91	R-8083	1.46	1200	ppm	P	Supernate	Braun	Ce	1.75E+06	*
BY106	Ce	6/3/91	R-8083	1.46	1200	ppm	P	Supernatant	RAW	Ce	1.75E+06	*
BY102	Ce	6/3/91	R-8081	1.42	1200	ppm	P	Supernate	Braun	Ce	1.70E+06	
BY102	Ce	6/3/91	R-8081	1.42	1200	ppm	P	Supernatant	RAW	Ce	1.70E+06	
BY105	Ce	6/3/91	R-8082	1.38	1200	ppm	P	Supernatant	RAW	Ce	1.66E+06	
BY105	Ce	6/3/91	R-8082	1.38	1200	ppm	P	Supernate	Braun	Ce	1.66E+06	
BY109	Ce	6/3/91	R-8084	1.3	1200	ppm	P	Supernate	Braun	Ce	1.56E+06	
BY109	Ce	6/3/91	R-8084	1.3	1200	ppm	P	Supernatant	RAW	Ce	1.56E+06	
BY109	Ce	11/20/90	R8084	1.37	1102	ppm	P	Supernatant	RAW	Ce	1.51E+06	
BY106	Ce	6/3/91	R-8093	1.47	980	ppm	P	Supernate	Braun	Ce	1.44E+06	
BY106	Ce	6/3/91	R-8093	1.47	980	ppm	P	Supernatant	RAW	Ce	1.44E+06	
BY102	Ce	6/3/91	R-8091	1.41	1000	ppm	P	Supernate	Braun	Ce	1.41E+06	
BY102	Ce	6/3/91	R-8091	1.41	1000	ppm	P	Supernatant	RAW	Ce	1.41E+06	
BY101	Ce(NO3)2	12/20/55			0.01	M	L		RAW	Ce	1.40E+06	
BY102	Ce(NO3)2	12/20/55			0.01	M	L		RAW	Ce	1.40E+06	
BY103	Ce(NO3)2	12/20/55			0.01	M	L		RAW	Ce	1.40E+06	
BY105	Ce	6/3/91	R-8092	1.4	1000	ppm	P	Supernate	Braun	Ce	1.40E+06	
BY109	Ce	6/3/91	R-8094	1.4	1000	ppm	P	Supernate	Braun	Ce	1.40E+06	
BY105	Ce	6/3/91	R-8092	1.4	1000	ppm	P	Supernatant	RAW	Ce	1.40E+06	
BY109	Ce	6/3/91	R-8094	1.4	1000	ppm	P	Supernatant	RAW	Ce	1.40E+06	
BY102	Ce	11/20/90	R-8081		1240	PPM	P	Supernatant	RAW	Ce	1.36E+06	
BY105	Ce	11/20/90	R-8082		1140	PPM	P	Supernatant	RAW	Ce	1.25E+06	
BY106	Ce	11/20/90	R8083		1078	ppm	P	Supernatant	RAW	Ce	1.19E+06	
BY102	Ce	6/3/91			0.845	g/L	P	Supernate	Wastren	Ce	8.45E+05	
BY106	Ce	6/3/91			0.822	g/L	L	Drainable Liquid	Wastren	Ce	8.22E+05	
BY105	Ce	6/3/91			0.714	g/L	L	Drainable Liquid	Wastren	Ce	7.14E+05	
BY109	Ce	6/3/91			0.714	g/L	P	Supernate	Wastren	Ce	7.14E+05	
C106	Ce	4/1/90	RAT-C106-4A		490	ugm/gm	U	Unknown	Braun	Ce	5.39E+05	
TX108	Ce				923	g-moles	L		TRAC	Ce	5.34E+05	
C105	Ce	4/1/90	RAT-C105-4A		270	ugm/gm	U	Unknown	Braun	Ce	2.97E+05	
AX102	Ce	11/14/88	RAT-AX102-3		0.0009	moles/l	P	Supernate	Braun	Ce	1.26E+05	
AX102	Ce	8/1/88			0.0009	M	P	supernate	RAW	Ce	1.26E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Liquids [Sketch ES-VAL-CC11]
ASA Value: 1.75E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AX102	Ce	11/14/88			0.126	g/L	P	Supernate	Wastren	Ce	1.26E+05	
B108	Ce				6.69	g-moles	L		TRAC	Ce	7.47E+04	
TX109	Ce				794	g-moles	L		TRAC	Ce	7.31E+04	
C102	Ce	4/1/90	RAT-C102-1		60	ugm/gm	U	Unknown	Braun	Ce	6.60E+04	
TX112	Ce				814	g-moles	L		TRAC	Ce	4.50E+04	
TX110	Ce				619	g-moles	L		TRAC	Ce	4.43E+04	
C110	Ce	6/3/91	R-8087	1.2	35	ppm	P	Supernate	Braun	Ce	4.20E+04	
C110	Ce	11/20/90	8087	1.2	34	ppm	p	supernate	RAW	Ce	4.08E+04	
TX113	Ce				525	g-moles	L		TRAC	Ce	3.50E+04	
T104	Ce				422	g-moles	L		TRAC	Ce	3.32E+04	
C110	Ce	6/3/91			0.0292	g/L	P	Supernate	Wastren	Ce	2.92E+04	
B104	Ce				73.1	g-moles	L		TRAC	Ce	2.67E+04	
BX110	Ce				71.6	g-moles	L		TRAC	Ce	1.85E+04	
U102	Ce				180	g-moles	L		TRAC	Ce	1.76E+04	
t104	Cerium	8/26/92	B08TQ7	1.1	15.6	ug/mL	L	PRIMARY RESULT	TCD	Ce	1.56E+04	
BX112	Ce				56.6	g-moles	L		TRAC	Ce	1.54E+04	
TX111	Ce				161	g-moles	L		TRAC	Ce	1.51E+04	
BX111	Ce				73.6	g-moles	L		TRAC	Ce	1.47E+04	
BY109	Ce				30.6	g-moles	L		TRAC	Ce	1.40E+04	
TX115	Ce				226	g-moles	L		TRAC	Ce	1.34E+04	
TX116	Ce				122	g-moles	L		TRAC	Ce	1.19E+04	
BX107	Ce				117	g-moles	L		TRAC	Ce	1.17E+04	
BY101	Ce				94.3	g-moles	L		TRAC	Ce	1.03E+04	
c110	Cerium	4/23/92	B08VM5	1	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VM5	1	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VH6	1.18	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VH6	1.18	9.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VM5	1	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VM5	1	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VP9	1.1	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
c110	Cerium	4/23/92	B08VH6	1.18	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Liquids [Sketch ES-VAL-CC11]
ASA Value: 1.75E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Cerium	4/23/92	B08VH6	1.18	9.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	9.90E+03	
TY102	Ce				16	g-moles	L		TRAC	Ce	9.38E+03	
TX114	Ce				146	g-moles	L		TRAC	Ce	8.41E+03	
SX106	Ce				107	g-moles	L		TRAC	Ce	8.29E+03	
T101	Ce				29	g-moles	L		TRAC	Ce	8.24E+03	
B107	Ce				33.3	g-moles	L		TRAC	Ce	7.64E+03	
TY101	Ce				20.5	g-moles	L		TRAC	Ce	7.21E+03	
TY104	Ce				8.3	g-moles	L		TRAC	Ce	6.72E+03	
BY110	Ce				85.4	g-moles	L		TRAC	Ce	6.27E+03	
T109	Ce				24.7	g-moles	L		TRAC	Ce	6.21E+03	
BY104	Ce				96.2	g-moles	L		TRAC	Ce	6.18E+03	
BY106	Ce				95.6	g-moles	L		TRAC	Ce	5.91E+03	
BY111	Ce				96.6	g-moles	L		TRAC	Ce	5.81E+03	
BY108	Ce				54.1	g-moles	L		TRAC	Ce	5.78E+03	
BY112	Ce				17.7	g-moles	L		TRAC	Ce	5.03E+03	
C110	Ce	11/1/91	1	1.1	5	ug/ml	L	core 38 seg. 4	RAW	Ce	5.00E+03	
C110	Ce	11/1/91	2	1.1	5	ug/ml	L	core 38 seg. 4	RAW	Ce	5.00E+03	
C110	Ce	11/1/91	1	1.18	5	ug/ml	L	core 39 seg. 3	RAW	Ce	5.00E+03	
C110	Ce	11/1/91	2	1.18	5	ug/ml	L	core 39 seg. 3	RAW	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	DUPLICATE RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	DUPLICATE RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	DUPLICATE RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VH6	1.18	5	ug/mL	L	DUPLICATE RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VH6	1.18	5	ug/mL	L	DUPLICATE RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	PRIMARY RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	PRIMARY RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VP9	1.1	5	ug/mL	L	PRIMARY RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VH6	1.18	5	ug/mL	L	PRIMARY RESULT	TCD	Ce	5.00E+03	
c110	Cerium	4/23/92	B08VH6	1.18	5	ug/mL	L	PRIMARY RESULT	TCD	Ce	5.00E+03	
TX117	Ce				49.4	g-moles	L		TRAC	Ce	4.92E+03	
C110	Ce	11/1/91	1	1	4.9	ug/ml	L	core 37 seg. 3	RAW	Ce	4.90E+03	
C110	Ce	11/1/91	2	1	4.9	ug/ml	L	core 37 seg. 3	RAW	Ce	4.90E+03	
c110	Cerium	4/23/92	B08VM5	1	4.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	4.90E+03	
c110	Cerium	4/23/92	B08VM5	1	4.9	ug/mL	L	DUPLICATE RESULT	TCD	Ce	4.90E+03	
c110	Cerium	4/23/92	B08VM5	1	4.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	4.90E+03	
c110	Cerium	4/23/92	B08VM5	1	4.9	ug/mL	L	PRIMARY RESULT	TCD	Ce	4.90E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Liquids [Sketch ES-VAL-CC11]
 ASA Value: 1.75E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BY105	Ce				74.7	g-moles	L		TRAC	Ce	4.82E+03	
BY107	Ce				34.9	g-moles	L		TRAC	Ce	4.16E+03	
SX104	Ce				34.9	g-moles	L		TRAC	Ce	3.75E+03	
U107	Ce				38.4	g-moles	L		TRAC	Ce	3.64E+03	
SX105	Ce				57.9	g-moles	L		TRAC	Ce	3.58E+03	
S101	Ce				21.5	g-moles	L		TRAC	Ce	3.47E+03	
U111	Ce				10.3	g-moles	L		TRAC	Ce	2.88E+03	
TY103	Ce				10.1	g-moles	L		TRAC	Ce	2.47E+03	
B109	Ce				3.83	g-moles	L		TRAC	Ce	2.15E+03	
C112	Ce				5.67	g-moles	L		TRAC	Ce	2.13E+03	
AX103	Ce				6.39	g-moles	L		TRAC	Ce	1.95E+03	
S108	Ce				26.3	g-moles	L		TRAC	Ce	1.61E+03	
B103	Ce				3.29	g-moles	L		TRAC	Ce	1.36E+03	
C109	Ce				2.03	g-moles	L		TRAC	Ce	1.28E+03	
t107	Cerium	3/1/93	B08V16	1.02	1.28	ug/mL	L	DUPLICATE RESULT	TCD	Ce	1.28E+03	
t107	Cerium	3/1/93	B08V16	1.02	1.28	ug/mL	L	DUPLICATE RESULT	TCD	Ce	1.28E+03	
t107	Cerium	3/1/93	B08V16	1.02	1.28	ug/mL	L	PRIMARY RESULT	TCD	Ce	1.28E+03	
t107	Cerium	3/1/93	B08V16	1.02	1.28	ug/mL	L	PRIMARY RESULT	TCD	Ce	1.28E+03	
t107	Cerium	3/1/93	B08V58	1.2	1.28	ug/mL	L	PRIMARY RESULT	TCD	Ce	1.28E+03	
T102	Ce				0.492	g-moles	L		TRAC	Ce	1.21E+03	
B105	Ce				5.42	g-moles	L		TRAC	Ce	1.03E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
C111	Ce				1.25	g-moles	L		TRAC	Ce	8.47E+02	
B102	Ce				0.959	g-moles	L		TRAC	Ce	7.41E+02	
BX108	Ce				0.258	g-moles	L		TRAC	Ce	4.47E+02	
T108	Ce				0.45	g-moles	L		TRAC	Ce	3.88E+02	
B106	Ce				0.632	g-moles	L		TRAC	Ce	2.87E+02	
TX103	Ce				1.5	g-moles	L		TRAC	Ce	2.72E+02	
S111	Ce				3.99	g-moles	L		TRAC	Ce	2.53E+02	
S110	Ce				3.6	g-moles	L		TRAC	Ce	2.13E+02	
A103	Ce				2.03	g-moles	L		TRAC	Ce	1.48E+02	
TX105	Ce				1.82	g-moles	L		TRAC	Ce	1.18E+02	
C108	Ce				0.0129	g-moles	L		TRAC	Ce	9.27E+01	
C107	Ce				0.619	g-moles	L		TRAC	Ce	7.60E+01	
C101	Ce				0.006	g-moles	L		TRAC	Ce	3.00E+01	
U109	Ce				0.351	g-moles	L		TRAC	Ce	2.85E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Liquids [Sketch ES-VAL-CC11]
 ASA Value: 1.75E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Ce				0.0223	g-moles	L		TRAC	Ce	2.24E+01	
TX102	Ce				0.155	g-moles	L		TRAC	Ce	1.79E+01	
T103	Ce				0.01	g-moles	L		TRAC	Ce	1.59E+01	
TY105	Ce				0.102	g-moles	L		TRAC	Ce	1.35E+01	
t107	Cerium	3/1/93	B08VB5	1.1	3.2	UG/L	L	DUPLICATE RESULT	TCD	Ce	3.20E+00	
BX109	Ce				0.0171	g-moles	L		TRAC	Ce	3.14E+00	
S106	Ce				0.00542	g-moles	L		TRAC	Ce	3.54E-01	
U108	Ce				0.00138	g-moles	L		TRAC	Ce	1.51E-01	
A105	Ce				0.0000385	g-moles	L		TRAC	Ce	7.81E-02	
U103	Ce				0.000511	g-moles	L		TRAC	Ce	5.58E-02	
TX104	Ce				2.38E-07	g-moles	L		TRAC	Ce	1.29E-04	
A106	Ce				1.19E-07	g-moles	L		TRAC	Ce	4.15E-05	
S102	Ce				1.59E-07	g-moles	L		TRAC	Ce	1.59E-05	
S107	Ce				2.98E-08	g-moles	L		TRAC	Ce	1.07E-05	
C110	Ce				1.04E-08	g-moles	L		TRAC	Ce	1.86E-06	
SX101	Ce				6.41E-09	g-moles	L		TRAC	Ce	1.50E-06	
TY106	Ce				4.66E-10	g-moles	L		TRAC	Ce	1.21E-06	
AX101	Ce				3.16E-10	g-moles	L		TRAC	Ce	1.54E-08	
C104	Ce				9.13E-15	g-moles	L		TRAC	Ce	1.80E-12	
U106	Ce				4.44E-16	g-moles	L		TRAC	Ce	7.23E-14	
T107	Ce				1.96E-16	g-moles	L		TRAC	Ce	4.21E-14	
C102	Ce				2.77E-16	g-moles	L		TRAC	Ce	3.92E-14	
BX101	Ce				6.86E-20	g-moles	L		TRAC	Ce	9.08E-17	
AX102	Ce				1.69E-21	g-moles	L		TRAC	Ce	1.18E-18	
B101	Ce				8.53E-31	g-moles	L		TRAC	Ce	3.37E-28	
C106	Ce				5.88E-39	g-moles	L		TRAC	Ce	1.29E-36	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Ce	12/15/89	89-070/1/2		3794	ugm/gm	G	Sludge/Composite	Braun	Ce	6.07E+06	20
U110	Cerium	12/1/89	Core Composite 12	1.42	3794	ug/g	I	PRIMARY	U110 Core Data	Ce	5.39E+06	20
U110	Ce	11/30/89	89-075		2873	ugm/gm	G	Sludge	Braun	Ce	4.60E+06	20
U110	Cerium	12/1/89	Core 12 Segment 2	1.77	2473	ug/g	I	DUPLICATE	U110 Core Data	Ce	4.38E+06	20
U110	Cerium	12/1/89	Core 12 Segment 2	1.77	2352	ug/g	I	PRIMARY	U110 Core Data	Ce	4.16E+06	20
U110	Ce	11/29/89	89-070		2352	ugm/gm	G	Sludge	Braun	Ce	3.76E+06	20
U110	Cerium	12/1/89	Core 7 Segment 1	1.78	2037	ug/g	I	DUPLICATE	U110 Core Data	Ce	3.63E+06	20
U110	Cerium	12/1/89	Core Composite 7	1.675	2115	ug/g	I	PRIMARY	U110 Core Data	Ce	3.54E+06	20
U110	Ce	11/15/89	89-046/7/8/9		2115	ugm/gm	G	Sludge/Composite	Braun	Ce	3.38E+06	20
U110	Cerium	12/1/89	Core 13 Segment 3	1.14	2873	ug/g	I	PRIMARY	U110 Core Data	Ce	3.28E+06	20
U110	Cerium	12/1/89	Core Composite 8		2018	ug/g	I	DUPLICATE	U110 Core Data	Ce	3.23E+06	20
U110	Cerium	12/1/89	Core 13 Segment 3	1.14	2539	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.89E+06	20
U110	Ce	12/4/89	89-082/3/4		1802	ugm/gm	G	Sludge/Composite	Braun	Ce	2.88E+06	20
U110	Cerium	12/1/89	Core Composite 15	1.29	2129	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.75E+06	20
B110	Cerium	4/1/90	Core Composite 9	1.32	2019.9859	ug/g	I	PRIMARY	B110 Core Data	Ce	2.67E+06	14
U110	Cerium	12/1/89	Core Composite 6	1.54	1715	ug/g	I	PRIMARY	U110 Core Data	Ce	2.64E+06	20
U110	Cerium	12/1/89	Core Composite 12	1.42	1825	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.59E+06	20
U110	Cerium	12/1/89	Core Composite 8		1577	ug/g	I	PRIMARY	U110 Core Data	Ce	2.52E+06	20
U110	Cerium	12/1/89	Core 15 Segment 4	1.31	1789	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.34E+06	20
U110	Cerium	12/1/89	Core Composite 15	1.29	1802	ug/g	I	PRIMARY	U110 Core Data	Ce	2.32E+06	20
U110	Cerium	12/1/89	Core Composite 7	1.675	1349	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.26E+06	20
U110	Cerium	12/1/89	Core Composite 14	1.48	1463	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.17E+06	20
U110	Cerium	12/1/89	Core Composite 14	1.48	1416	ug/g	I	PRIMARY	U110 Core Data	Ce	2.10E+06	20
U110	Ce	11/29/89	89-072		1272	ugm/gm	G	Sludge	Braun	Ce	2.04E+06	20
B110	Cerium	4/1/90	Core Composite 9	1.32	1465.2361	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.93E+06	14
U110	Cerium	12/1/89	Core 12 Segment 4	1.48	1272	ug/g	I	PRIMARY	U110 Core Data	Ce	1.88E+06	20
U110	Cerium	12/1/89	Core 15 Segment 3	1.3	1429	ug/g	I	DUPLICATE	U110 Core Data	Ce	1.86E+06	20
U110	Cerium	12/1/89	Core Composite 7	1.675	1082	ug/g	I	DUPLICATE	U110 Core Data	Ce	1.81E+06	20
U110	Cerium	12/1/89	Core 7 Segment 1	1.78	836	ug/g	I	PRIMARY	U110 Core Data	Ce	1.49E+06	20
U110	Cerium	12/1/89	Core Composite 12	1.42	1027	ug/g	I	PRIMARY	U110 Core Data	Ce	1.46E+06	20
U110	Ce	11/15/89	89-046		836	ugm/gm	G	Sludge	Braun	Ce	1.34E+06	20
U110	Ce	12/4/89	89-084		777	ugm/gm	G	Sludge	Braun	Ce	1.24E+06	20
U110	Cerium	12/1/89	Core Composite 5	1.04	1157	ug/g	I	PRIMARY	U110 Core Data	Ce	1.20E+06	20
B110	Cerium	4/1/90	CORE 4 SEGMENT 4	1.3	912.94587	ug/g	I		B110 Core Data	Ce	1.19E+06	14
U110	Cerium	12/1/89	Core Composite 12	1.42	800	ug/g	I	PRIMARY	U110 Core Data	Ce	1.14E+06	20
B110	Cerium	4/1/90	Core Composite 1	1.36	834.65142	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.14E+06	14
U110	Cerium	12/1/89	Core Composite 12	1.42	799	ug/g	I	DUPLICATE	U110 Core Data	Ce	1.13E+06	20
B110	Cerium	4/1/90	Core Composite 18	1.37	812.29235	ug/g	I	PRIMARY	B110 Core Data	Ce	1.11E+06	14
B110	Cerium	4/1/90	CORE 4 SEGMENT 2	1.3	821.77017	ug/g	I	PRIMARY	B110 Core Data	Ce	1.07E+06	14

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Cerium	12/1/89	Core Composite 14	1.48	719	ug/g	I	PRIMARY	U110 Core Data	Ce	1.06E+06	20
B110	Cerium	4/1/90	Core Composite 1	1.36	766.51661	ug/g	I	PRIMARY	B110 Core Data	Ce	1.04E+06	14
B110	Cerium	4/1/90	Core Composite 18	1.37	757.52381	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.04E+06	14
B110	Cerium	4/1/90	CORE 4 SEGMENT 2	1.3	786.7439	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.02E+06	14
U110	Cerium	12/1/89	Core 15 Segment 4	1.31	777	ug/g	I	PRIMARY	U110 Core Data	Ce	1.02E+06	20
B110	Cerium	4/1/90	Core Composite 1	1.36	734.88259	ug/g	I	PRIMARY	B110 Core Data	Ce	9.99E+05	14
B110	Cerium	4/1/90	CORE 4 SEGMENT 3	1.3	749.6214	ug/g	I	DUPLICATE	B110 Core Data	Ce	9.75E+05	14
B110	Cerium	4/1/90	CORE 4 SEGMENT 3	1.3	737.00151	ug/g	I	PRIMARY	B110 Core Data	Ce	9.58E+05	14
B110	Cerium	4/1/90	Core Composite 3	1.36	664.84161	ug/g	I	PRIMARY	B110 Core Data	Ce	9.04E+05	14
ASA Value: 9.01E+05 ug/L												
C102	Ce	12/1/86	RAT-C102-2		563	ugm/gm	I	Composite	Braun	Ce	9.01E+05	*
B110	Cerium	4/1/90	CORE 1 SEGMENT 2	1.3	674.41861	ug/g	I	PRIMARY	B110 Core Data	Ce	8.77E+05	
C106	Ce	4/1/90			0.858	g/L	G	Sludge	Wastren	Ce	8.58E+05	
Preliminary ASA Value: 8.58E+05 ug/L												
B110	Cerium	4/1/90	Core Composite 4	1.36	625.13709	ug/g	I	PRIMARY	B110 Core Data	Ce	8.50E+05	
U110	Cerium	12/1/89	Core 12 Segment 4	1.48	543	ug/g	I	DUPLICATE	U110 Core Data	Ce	8.04E+05	
U110	Cerium	12/1/89	Core 7 Segment 4	1.93	414	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.99E+05	
C106	Ce	2/1/91			490	mg/kg	S	KOH Fusion	RAW	Ce	7.84E+05	
U110	Ce	11/15/89	89-048		484	ugm/gm	G	Sludge	Braun	Ce	7.74E+05	
U110	Cerium	12/1/89	Core 6 Segment 4	1.8	424	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.63E+05	
C102	Ce	7/10/86	E1XCOOXX	1.351	563	ugm/gm	G	Sludge/Composite	Braun	Ce	7.61E+05	
c112	Cerium	3/1/92	B08DN8	1.6	475.1	ug/g	S	DUPLICATE RESULT	TCD	Ce	7.60E+05	
B110	Cerium	4/1/90	CORE 4 SEGMENT 5	1.3	584.39245	ug/g	I		B110 Core Data	Ce	7.60E+05	
U110	Cerium	12/1/89	Core Composite 7	1.675	450	ug/g	I	PRIMARY	U110 Core Data	Ce	7.54E+05	
U110	Cerium	12/1/89	Core Composite 5	1.04	718	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.47E+05	
U110	Cerium	12/1/89	Core 7 Segment 3	1.53	484	ug/g	I	PRIMARY	U110 Core Data	Ce	7.41E+05	
B110	Cerium	4/1/90	Core Composite 1	1.36	542.64509	ug/g	I	DUPLICATE	B110 Core Data	Ce	7.38E+05	
U110	Ce	12/4/89	89-083		456	ugm/gm	G	Sludge	Braun	Ce	7.30E+05	
U110	Cerium	12/1/89	Core Composite 7	1.675	425	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.12E+05	
B110	Cerium	4/1/90	CORE 4 SEGMENT 4	1.3	543.7765	ug/g	I		B110 Core Data	Ce	7.07E+05	
c112	Cerium	3/1/92	B08DN8	1.6	440.6	ug/g	S	PRIMARY RESULT	TCD	Ce	7.05E+05	
U110	Cerium	12/1/89	Core 6 Segment 2	1.59	443	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.04E+05	
U110	Cerium	12/1/89	Core 7 Segment 3	1.53	459	ug/g	I	DUPLICATE	U110 Core Data	Ce	7.02E+05	
U110	Cerium	12/1/89	Core 6 Segment 2	1.59	439	ug/g	I	PRIMARY	U110 Core Data	Ce	6.98E+05	
U110	Cerium	12/1/89	Core Composite 15	1.29	530	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.84E+05	
U110	Cerium	12/1/89	Core 14 Segment 1	1.5	453	ug/g	I	PRIMARY	U110 Core Data	Ce	6.80E+05	
U110	Cerium	12/1/89	Core 14 Segment 1	1.5	452	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.78E+05	
U110	Cerium	12/1/89	Core Composite 15	1.29	521	ug/g	I	PRIMARY	U110 Core Data	Ce	6.72E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Cerium	12/1/89	Core Composite 8		418	ug/g	I	PRIMARY	U110 Core Data	Ce	6.69E+05	
U110	Cerium	12/1/89	Core 7 Segment 4	1.93	345	ug/g	I	PRIMARY	U110 Core Data	Ce	6.66E+05	
U110	Cerium	12/1/89	Core 14 Segment 4	1.62	408	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.61E+05	
U110	Cerium	12/1/89	Core Composite 6	1.54	427	ug/g	I	PRIMARY	U110 Core Data	Ce	6.58E+05	
U110	Cerium	12/1/89	Core Composite 6	1.54	426	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.56E+05	
U110	Cerium	12/1/89	Core 7 Segment 2	1.46	438	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.39E+05	
U110	Cerium	12/1/89	Core Composite 14	1.48	427	ug/g	I	PRIMARY	U110 Core Data	Ce	6.32E+05	
U110	Cerium	12/1/89	Core Composite 14	1.48	427	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.32E+05	
B110	Cerium	4/1/90	CORE 1 SEGMENT 2	1.3	472.86822	ug/g	I	DUPLICATE	B110 Core Data	Ce	6.15E+05	
B110	Cerium	4/1/90	CORE 4 SEGMENT 5	1.3	465.61349	ug/g	I		B110 Core Data	Ce	6.05E+05	
U110	Cerium	12/1/89	Core Composite 12	1.42	425	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.04E+05	
U110	Cerium	12/1/89	Core Composite 14	1.48	407	ug/g	I	DUPLICATE	U110 Core Data	Ce	6.02E+05	
U110	Cerium	12/1/89	Core 15 Segment 3	1.3	456	ug/g	I	PRIMARY	U110 Core Data	Ce	5.93E+05	
U110	Cerium	12/1/89	Core 6 Segment 4	1.8	329	ug/g	I	PRIMARY	U110 Core Data	Ce	5.92E+05	
U110	Cerium	12/1/89	Core 13 Segment 4	1.46	405	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.91E+05	
U110	Cerium	12/1/89	Core Composite 13	1.3	448	ug/g	I	PRIMARY	U110 Core Data	Ce	5.82E+05	
U110	Cerium	12/1/89	Core Composite 8		358	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.73E+05	
U110	Cerium	12/1/89	Core Composite 6	1.54	369	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.68E+05	
U110	Cerium	12/1/89	Core 13 Segment 4	1.46	388	ug/g	I	PRIMARY	U110 Core Data	Ce	5.66E+05	
U110	Cerium	12/1/89	Core 5 Segment 4		354	ug/g	I	PRIMARY	U110 Core Data	Ce	5.66E+05	
U110	Cerium	12/1/89	Core 15 Segment 2	1.27	444	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.64E+05	
U110	Cerium	12/1/89	Core 7 Segment 2	1.46	385	ug/g	I	PRIMARY	U110 Core Data	Ce	5.62E+05	
U110	Cerium	12/1/89	Core 14 Segment 4	1.62	345	ug/g	I	PRIMARY	U110 Core Data	Ce	5.59E+05	
U110	Cerium	12/1/89	Core Composite 13	1.3	427	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.55E+05	
U110	Cerium	12/1/89	Core 6 Segment 3	1.22	454	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.54E+05	
U110	Ce	11/15/89	89-049		345	ugm/gm	G	Sludge	Braun	Ce	5.52E+05	
U110	Cerium	12/1/89	Core 15 Segment 2	1.27	423	ug/g	I	PRIMARY	U110 Core Data	Ce	5.37E+05	
B110	Cerium	4/1/90	Core Composite 4	1.36	392.62996	ug/g	I	DUPLICATE	B110 Core Data	Ce	5.34E+05	
U110	Cerium	12/1/89	Core Composite 7	1.675	317	ug/g	I	PRIMARY	U110 Core Data	Ce	5.31E+05	
U110	Cerium	12/1/89	Core 6 Segment 3	1.22	434	ug/g	I	PRIMARY	U110 Core Data	Ce	5.29E+05	
U110	Cerium	12/1/89	Core Composite 15	1.29	405	ug/g	I	PRIMARY	U110 Core Data	Ce	5.22E+05	
U110	Cerium	12/1/89	Core 5 Segment 4		325	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.20E+05	
t107	Cerium	3/1/93	B08VFO	1.38	376	ug/g	S	PRIMARY RESULT	TCD	Ce	5.19E+05	
U110	Cerium	12/1/89	Core Composite 15	1.29	401	ug/g	I	DUPLICATE	U110 Core Data	Ce	5.17E+05	
B110	Cerium	4/1/90	Core Composite 10	1.34	366.77507	ug/g	I	DUPLICATE	B110 Core Data	Ce	4.91E+05	
U110	Cerium	12/1/89	Core Composite 5	1.04	462	ug/g	I	PRIMARY	U110 Core Data	Ce	4.80E+05	
t107	Cerium	3/1/93	B08VD8	1.42	335	ug/g	S	PRIMARY RESULT	TCD	Ce	4.76E+05	
t107	Cerium	3/1/93	B08VD8	1.42	334	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.74E+05	
C105	Ce	4/1/90			0.473	g/L	G	Sludge	Wastren	Ce	4.73E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Cerium	3/1/92	B08DY1	2	231	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.62E+05	
c112	Cerium	3/1/92	B08DY1	2	226.4	ug/g	S	PRIMARY RESULT	TCD	Ce	4.53E+05	
t107	Cerium	3/1/93	B08VFO	1.38	328	ug/g	S	PRIMARY RESULT	TCD	Ce	4.53E+05	
t107	Cerium	3/1/93	B08VFO	1.38	327	ug/g	S	PRIMARY RESULT	TCD	Ce	4.51E+05	
c112	Cerium	3/1/92	B08DY1	2	224.2	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.48E+05	
c112	Cerium	3/1/92	B08DY1	2	222.2	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.44E+05	
t107	Cerium	3/1/93	B08VFO	1.38	318	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.39E+05	
c112	Cerium	3/1/92	B08DY1	2	216.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.34E+05	
t107	Cerium	3/1/93	B08VFO	1.38	314	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.33E+05	
C105	Ce	2/1/91			270	mg/kg	S	KOH Fusion	RAW	Ce	4.32E+05	
c112	Cerium	3/1/92	B08DY1	2	214.5	ug/g	S	PRIMARY RESULT	TCD	Ce	4.29E+05	
c112	Cerium	3/1/92	B08DY1	2	214.3	ug/g	S	PRIMARY RESULT	TCD	Ce	4.29E+05	
t107	Cerium	3/1/93	B08VFO	1.38	308	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.25E+05	
c112	Cerium	3/1/92	B08DY1	2	209.5	ug/g	S	PRIMARY RESULT	TCD	Ce	4.19E+05	
c112	Cerium	3/1/92	B08DY1	2	208.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.18E+05	
c112	Cerium	3/1/92	B08DY1	2	204.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.09E+05	
t107	Cerium	3/1/93	B08VFO	1.38	295	ug/g	S	PRIMARY RESULT	TCD	Ce	4.07E+05	
U110	Cerium	12/1/89	Core 12 Segment 3	1	407	ug/g	I	DUPLICATE	U110 Core Data	Ce	4.07E+05	
U110	Cerium	12/1/89	Core Composite 5	1.04	391	ug/g	I	DUPLICATE	U110 Core Data	Ce	4.07E+05	
t107	Cerium	3/1/93	B08VB9	1.19	336	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.00E+05	
t107	Cerium	3/1/93	B08VB9	1.19	335	ug/g	S	PRIMARY RESULT	TCD	Ce	3.99E+05	
t107	Cerium	3/1/93	B08VB9	1.19	335	ug/g	S	PRIMARY RESULT	TCD	Ce	3.99E+05	
c112	Cerium	3/1/92	B08DY1	2	195.4	ug/g	S	PRIMARY RESULT	TCD	Ce	3.91E+05	
t107	Cerium	3/1/93	B08VFO	1.38	282	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.89E+05	
U110	Cerium	12/1/89	Core 12 Segment 3	1	389	ug/g	I	PRIMARY	U110 Core Data	Ce	3.89E+05	
c112	Cerium	3/1/92	B08DY1	2	194	ug/g	S	PRIMARY RESULT	TCD	Ce	3.88E+05	
t107	Cerium	3/1/93	B08TZ2	1.29	297	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.83E+05	
B110	Cerium	4/1/90	Core Composite 3	1.36	278.64685	ug/g	I	DUPLICATE	B110 Core Data	Ce	3.79E+05	
t107	Cerium	3/1/93	B08VFO	1.38	266	ug/g	S	PRIMARY RESULT	TCD	Ce	3.67E+05	
U110	Cerium	12/1/89	Core 14 Segment 2	1.39	264	ug/g	I	PRIMARY	U110 Core Data	Ce	3.67E+05	
BX107	Ce	10/20/92	J927-AV		228.8136	ugm/gm	G	Sludge/Composite	Braun	Ce	3.66E+05	
B110	Cerium	4/1/90	CORE 4 SEGMENT 4	1.3	254.42754	ug/g	I		B110 Core Data	Ce	3.31E+05	
BX107	Ce	10/20/92	J927-AV		203	ugm/gm	G	Sludge/Composite	Braun	Ce	3.25E+05	
t107	Cerium	3/1/93	B08VFO	1.38	235	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.24E+05	
BX107	Ce	10/20/92	J925-AV		201.0167	ugm/gm	G	Sludge/Composite	Braun	Ce	3.22E+05	
U110	Cerium	12/1/89	Core 14 Segment 2	1.39	231	ug/g	I	DUPLICATE	U110 Core Data	Ce	3.21E+05	
T104	Ce	1/26/93	T104-C45-C2		196	ugm/gm	G	Sludge/Composite	Braun	Ce	3.14E+05	
U110	Cerium	12/1/89	Core 14 Segment 3	1.4	222	ug/g	I	PRIMARY	U110 Core Data	Ce	3.11E+05	
BX107	Ce	10/20/92	J925-AV		191	ugm/gm	G	Sludge/Composite	Braun	Ce	3.06E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
B110	Cerium	4/1/90	Core Composite 10	1.34	224.95538	ug/g	I	PRIMARY	B110 Core Data	Ce	3.01E+05		
U110	Cerium	12/1/89	Core 14 Segment 3	1.4	208	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.91E+05		
U110	Cerium	12/1/89	Core Composite 13	1.3	223	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.90E+05		
U110	Cerium	12/1/89	Core Composite 13	1.3	220	ug/g	I	PRIMARY	U110 Core Data	Ce	2.86E+05		
t107	Cerium	3/1/93	B08VFO	1.38	207	ug/g	S	PRIMARY RESULT	TCD	Ce	2.86E+05		
BX107	Ce	10/20/92	J926-AV		177.56275	ugm/gm	G	Sludge/Composite	Braun	Ce	2.84E+05		
BX107	Ce	10/20/92	J926-AV		169	ugm/gm	G	Sludge/Composite	Braun	Ce	2.70E+05		
bx107	Cerium	6/1/92	B08SD6	0.996	266.7842	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.66E+05		
t107	Cerium	3/1/93	B08VD9	1.305	202	ug/g	S	PRIMARY RESULT	TCD	Ce	2.64E+05		
bx107	Cerium	6/1/92	B08SD6	0.996	261.2924	ug/g	S	PRIMARY RESULT	TCD	Ce	2.60E+05		
bx107	Cerium	6/1/92	B08SFO	1.326	194	ug/g	S	PRIMARY RESULT	TCD	Ce	2.57E+05		
bx107	Cerium	6/1/92	B08SD6	0.996	257.6658	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.57E+05		
bx107	Cerium	6/1/92	B08SFO	1.326	193	ug/g	S	PRIMARY RESULT	TCD	Ce	2.56E+05		
t104	Cerium	8/26/92	B08S09	1.13	224	mg/kg	S	PRIMARY RESULT	TCD	Ce	2.53E+05		
bx107	Cerium	6/1/92	B08SFO	1.326	190	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.52E+05		
bx107	Cerium	6/1/92	B08SD6	0.996	252.9459	ug/g	S	PRIMARY RESULT	TCD	Ce	2.52E+05		
t107	Cerium	3/1/93	B08V44	1.1	226	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.49E+05		
bx107	Cerium	6/1/92	B08SFO	1.326	186	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.47E+05		
BX107	Ce	10/20/92	J924-AV		151	ugm/gm	G	Sludge/Composite	Braun	Ce	2.42E+05		
t104	Cerium	8/26/92	B08S09	1.13	212	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.40E+05		
t104	Cerium	8/26/92	B08S09	1.13	212	mg/kg	S	PRIMARY RESULT	TCD	Ce	2.40E+05		
t104	Cerium	8/26/92	B08S09	1.13	209	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.36E+05		
t107	Cerium	3/1/93	B08V44	1.1	212	ug/g	S	PRIMARY RESULT	TCD	Ce	2.33E+05		
U110	Cerium	12/1/89	Core 5 Segment 3	1.04	222	ug/g	I	PRIMARY	U110 Core Data	Ce	2.31E+05		
t107	Cerium	3/1/93	B08VR2	1.735	133	ug/g	S	PRIMARY RESULT	TCD	Ce	2.31E+05		
B110	Cerium	4/1/90	Core Composite 2	1.33	166.62091	ug/g	I	PRIMARY	B110 Core Data	Ce	2.22E+05		
B110	Cerium	4/1/90	Core Composite 4	1.36	162.3163	ug/g	I	DUPLICATE	B110 Core Data	Ce	2.21E+05		
t107	Cerium	3/1/93	B08VB9	1.19	185	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.20E+05		
T104	Ce	1/26/93	T104-C45-C1		137	ugm/gm	G	Sludge/Composite	Braun	Ce	2.19E+05		
U110	Cerium	12/1/89	Core 5 Segment 3	1.04	207	ug/g	I	DUPLICATE	U110 Core Data	Ce	2.15E+05		
t107	Cerium	3/1/93	B08VB9	1.19	180	ug/g	S	PRIMARY RESULT	TCD	Ce	2.14E+05		
B110	Cerium	4/1/90	Core Composite 2	1.33	159.58059	ug/g	I	DUPLICATE	B110 Core Data	Ce	2.12E+05		
B110	Cerium	4/1/90	Core Composite 2	1.33	159.58059	ug/g	I	PRIMARY	B110 Core Data	Ce	2.12E+05		
t107	Cerium	3/1/93	B08VD9	1.305	158	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.06E+05		
B110	Cerium	4/1/90	Core Composite 10	1.34	151.60036	ug/g	I	DUPLICATE	B110 Core Data	Ce	2.03E+05		
B110	Cerium	4/1/90	Core Composite 10	1.34	149.1552	ug/g	I	PRIMARY	B110 Core Data	Ce	2.00E+05		
t107	Cerium	3/1/93	B08VR2	1.735	113	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.96E+05		
c112	Cerium	3/1/92	B08DM7	1.6	110.2	ug/g	S	PRIMARY RESULT	TCD	Ce	1.76E+05		
B110	Cerium	4/1/90	Core Composite 4	1.36	129.41435	ug/q	I	PRIMARY	B110 Core Data	Ce	1.76E+05		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Cerium	4/1/90	CORE 3 SEGMENT 3	1.3	128.74002	ug/g	I	PRIMARY	B110 Core Data	Ce	1.67E+05	
c112	Cerium	3/1/92	B08DM7	1.6	103.6	ug/g	S	PRIMARY RESULT	TCD	Ce	1.66E+05	
c112	Cerium	3/1/92	B08DM7	1.6	103	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.65E+05	
t107	Cerium	3/1/93	B08VB9	1.19	137	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.63E+05	
B110	Cerium	4/1/90	CORE 3 SEGMENT 3	1.3	123.97187	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.61E+05	
t107	Cerium	3/1/93	B08VB9	1.19	132	ug/g	S	PRIMARY RESULT	TCD	Ce	1.57E+05	
c112	Cerium	3/1/92	B08DM7	1.6	94.1	ug/g	S	PRIMARY RESULT	TCD	Ce	1.51E+05	
c112	Cerium	3/1/92	B08DM7	1.6	93.5	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.50E+05	
BX107	Ce	10/20/92	J924-AV		92.09905	ugm/gm	G	Sludge/Composite	Braun	Ce	1.47E+05	
c112	Cerium	3/1/92	B08DN8	1.6	77.9	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.25E+05	
B110	Cerium	4/1/90	Core Composite 2	1.33	86.830612	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.15E+05	
c112	Cerium	3/1/92	B08DN8	1.6	70.2	ug/g	S	PRIMARY RESULT	TCD	Ce	1.12E+05	
S104	Ce	4/13/90			0.111	g/L	G	Sludge	Wastren	Ce	1.11E+05	
t105	Cerium	5/28/93	B08WT2	0.89	122	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.09E+05	
t105	Cerium	5/28/93	B08WT4	2.01	52.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.06E+05	
b202	Cerium	6/7/91	B08SP8	0.98	107	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.05E+05	
t107	Cerium	3/1/93	B08TZ2	1.29	80.4	ug/g	S	PRIMARY RESULT	TCD	Ce	1.04E+05	
b202	Cerium	6/7/91	B08SK0	0.93	111	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.03E+05	
s104	Cerium	8/1/92	B08TJ4	1.6	63.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.02E+05	
s104	Cerium	8/1/92	B08TJ4		63.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.02E+05	
s104	Cerium	8/1/92	B08TJ4	1.6	63.2	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.01E+05	
s104	Cerium	8/1/92	B08TJ4		63.2	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.01E+05	
s104	Cerium	8/1/92	B08TJ5	1.6	62.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.00E+05	
s104	Cerium	8/1/92	B08TJ5		62.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.00E+05	
t107	Cerium	3/1/93	B08V39	1.57	63.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.00E+05	
t107	Cerium	3/1/93	B08V39	1.57	63.7	ug/g	S	PRIMARY RESULT	TCD	Ce	1.00E+05	
s104	Cerium	8/1/92	B08TJ5	1.6	62.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.00E+05	
s104	Cerium	8/1/92	B08TJ5		62.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.00E+05	
b202	Cerium	6/7/91	B08SK0	0.93	106.6857	mg/kg	S	DUPLICATE RESULT	TCD	Ce	9.92E+04	
c112	Cerium	3/1/92	B08DM7	1.6	60.6	ug/g	S	PRIMARY RESULT	TCD	Ce	9.70E+04	
C102	Ce	2/1/91			60	mg/kg	S	KOH Fusion	RAW	Ce	9.60E+04	
B110	Cerium	4/1/90	Core Composite 18	1.37	69.918689	ug/g	I	PRIMARY	B110 Core Data	Ce	9.58E+04	
T105	Ce	10/26/93	RAT-T105-2B	2.01	46	ugm/gm	G	Sludge/Composite	Braun	Ce	9.25E+04	
b202	Cerium	6/7/91	B08SK0	0.93	98.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	9.15E+04	
t105	Cerium	5/28/93	B08WT2	0.89	102	mg/kg	S	DUPLICATE RESULT	TCD	Ce	9.08E+04	
c112	Cerium	3/1/92	B08DM7	1.6	55.9	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.94E+04	
c112	Cerium	3/1/92	B08DM7	1.6	54.4	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.70E+04	
t105	Cerium	5/28/93	B08WT4	2.01	42.1	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.46E+04	
t105	Cerium	5/28/93	B08WT4	2.01	42.1	ug/g	S	PRIMARY RESULT	TCD	Ce	8.46E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Cerium	3/1/93	B08TZ2	1.29	64	ug/g	S	PRIMARY RESULT	TCD	Ce	8.26E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.9	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.22E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.9	ug/g	S	PRIMARY RESULT	TCD	Ce	8.22E+04	
t107	Cerium	3/1/93	B08TZ2	1.29	63.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.20E+04	
b202	Cerium	6/7/91	B08SK0	0.93	88.2139	mg/kg	S	PRIMARY RESULT	TCD	Ce	8.20E+04	
b202	Cerium	6/7/91	B08SK0	0.93	88.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	8.20E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.20E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.18E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.6	ug/g	S	PRIMARY RESULT	TCD	Ce	8.16E+04	
t105	Cerium	5/28/93	B08WT4	2.01	40.4	ug/g	S	PRIMARY RESULT	TCD	Ce	8.12E+04	
T111	Ce	8/7/92	J-466		50.6	ugm/gm	G	Sludge/Composite	Braun	Ce	8.10E+04	
T111	Ce	8/7/92	J-470		50.4	ugm/gm	G	Sludge/Composite	Braun	Ce	8.06E+04	
b202	Cerium	6/7/91	B0BC06	0.99	81.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	8.04E+04	
b202	Cerium	6/7/91	B0BC06	0.99	80.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.96E+04	
t105	Cerium	5/28/93	B08WT4	2.01	39.3	ug/g	S	PRIMARY RESULT	TCD	Ce	7.90E+04	
s104	Cerium	8/1/92	B08TF6	1.6	49	mg/kg	S	DUPLICATE RESULT	TCD	Ce	7.84E+04	
s104	Cerium	8/1/92	B08TF6		49	mg/kg	S	DUPLICATE RESULT	TCD	Ce	7.84E+04	
s104	Cerium	8/1/92	B08TF6	1.6	49	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.84E+04	
s104	Cerium	8/1/92	B08TF6		49	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.84E+04	
s104	Cerium	8/1/92	B08TF7	1.6	48.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	7.78E+04	
s104	Cerium	8/1/92	B08TF7		48.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	7.78E+04	
b202	Cerium	6/7/91	B08SK0	0.93	83.1	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.73E+04	
s104	Cerium	8/1/92	B08TF7	1.6	48.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.73E+04	
s104	Cerium	8/1/92	B08TF7		48.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.73E+04	
b202	Cerium	6/7/91	B08SM4	1.35	57	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.70E+04	
c112	Cerium	3/1/92	B08DM7	1.6	47.9	ug/g	S	PRIMARY RESULT	TCD	Ce	7.66E+04	
B110	Cerium	4/1/90	Core Composite 18	1.37	55.771223	ug/g	I	DUPLICATE	B110 Core Data	Ce	7.64E+04	
b202	Cerium	6/7/91	B08SM4	1.35	56.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.61E+04	
t107	Cerium	3/1/93	B08TZ3	0.95	78.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	7.48E+04	
b202	Cerium	6/7/91	B0BC06	0.99	75.5	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.47E+04	
t107	Cerium	3/1/93	B08V44	1.1	67.9	ug/g	S	PRIMARY RESULT	TCD	Ce	7.47E+04	
t107	Cerium	3/1/93	B08V43	1.15	64	ug/g	S	DUPLICATE RESULT	TCD	Ce	7.36E+04	
B110	Cerium	4/1/90	Core Composite 9	1.32	54.728683	ug/g	I	PRIMARY	B110 Core Data	Ce	7.22E+04	
t111	Cerium	11/1/91	B08SQ9	1.13	63.9	ug/g	S	PRIMARY RESULT	TCD	Ce	7.22E+04	
T111	Ce	8/7/92	J-414	1.13	63.9	ugm/gm	G	Sludge	Braun	Ce	7.22E+04	
t107	Cerium	3/1/93	B08V43	1.15	62.4	ug/g	S	PRIMARY RESULT	TCD	Ce	7.18E+04	
b202	Cerium	6/7/91	B08SM4	1.35	52.4482	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.08E+04	
b202	Cerium	6/7/91	B08SM4	1.35	52.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.07E+04	
b202	Cerium	6/7/91	B0BC06	0.99	71.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.07E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
b202	Cerium	6/7/91	B08SM4	1.35	52.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	7.05E+04	
b202	Cerium	6/7/91	B08SM4	1.35	51.299	mg/kg	S	DUPLICATE RESULT	TCD	Ce	6.93E+04	
t107	Cerium	3/1/93	B08V43	1.15	60.2	ug/g	S	PRIMARY RESULT	TCD	Ce	6.92E+04	
t111	Cerium	11/1/91	B08SQ9	1.13	60.9	ug/g	S	DUPLICATE RESULT	TCD	Ce	6.88E+04	
s104	Cerium	8/1/92	B08TL3	1.6	43	mg/kg	S	DUPLICATE RESULT	TCD	Ce	6.88E+04	
s104	Cerium	8/1/92	B08TL3		43	mg/kg	S	DUPLICATE RESULT	TCD	Ce	6.88E+04	
t107	Cerium	3/1/93	B08V44	1.1	62.3	ug/g	S	DUPLICATE RESULT	TCD	Ce	6.85E+04	
s104	Cerium	8/1/92	B08TL4	1.6	42.7	mg/kg	S	DUPLICATE RESULT	TCD	Ce	6.83E+04	
s104	Cerium	8/1/92	B08TL4		42.7	mg/kg	S	DUPLICATE RESULT	TCD	Ce	6.83E+04	
s104	Cerium	8/1/92	B08TL4	1.6	42.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.82E+04	
s104	Cerium	8/1/92	B08TL4		42.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.82E+04	
c112	Cerium	3/1/92	B08DN6	1.3	52.3	ug/g	S	PRIMARY RESULT	TCD	Ce	6.80E+04	
t107	Cerium	3/1/93	B08V43	1.15	59.1	ug/g	S	DUPLICATE RESULT	TCD	Ce	6.80E+04	
s104	Cerium	8/1/92	B08TL3	1.6	42.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.78E+04	
s104	Cerium	8/1/92	B08TL3		42.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.78E+04	
b202	Cerium	6/7/91	B08SP8	0.98	66.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.53E+04	
b202	Cerium	6/7/91	B08SP8	0.98	65.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	6.39E+04	
B110	Cerium	4/1/90	Core Composite 2	1.33	46.935466	ug/g	I	DUPLICATE	B110 Core Data	Ce	6.24E+04	
B110	Cerium	4/1/90	Core Composite 9	1.32	47.26568	ug/g	I	DUPLICATE	B110 Core Data	Ce	6.24E+04	
c112	Cerium	3/1/92	B08DN6	1.3	46.4	ug/g	S	PRIMARY RESULT	TCD	Ce	6.03E+04	
t107	Cerium	3/1/93	B08TZ3	0.95	63.4	ug/g	S	PRIMARY RESULT	TCD	Ce	6.02E+04	
b202	Cerium	6/7/91	B08SP8	0.98	59.0246	mg/kg	S	PRIMARY RESULT	TCD	Ce	5.78E+04	
b202	Cerium	6/7/91	B08SP8	0.98	59	mg/kg	S	PRIMARY RESULT	TCD	Ce	5.78E+04	
c112	Cerium	3/1/92	B08DN6	1.3	44.1	ug/g	S	DUPLICATE RESULT	TCD	Ce	5.73E+04	
c112	Cerium	3/1/92	B08DN6	1.3	42.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	5.56E+04	
t111	Cerium	11/1/91	B08ST9	1.11	49.5	ug/g	S	DUPLICATE RESULT	TCD	Ce	5.49E+04	
t111	Cerium	11/1/91	B08ST9	1.11	49.2	ug/g	S	PRIMARY RESULT	TCD	Ce	5.46E+04	
s104	Cerium	8/1/92	B08S48	1.6	33.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	5.38E+04	
s104	Cerium	8/1/92	B08S48		33.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	5.38E+04	
B110	Cerium	4/1/90	Core Composite 3	1.36	39.10833	ug/g	I	DUPLICATE	B110 Core Data	Ce	5.32E+04	
b202	Cerium	6/7/91	B0BC06	0.99	52.4482	mg/kg	S	PRIMARY RESULT	TCD	Ce	5.19E+04	
T111	Ce	8/7/92	J-404	1.11	46.1	ugm/gm	G	Sludge	Braun	Ce	5.12E+04	
t111	Cerium	11/1/91	B08ST9	1.11	46.1	ug/g	S	PRIMARY RESULT	TCD	Ce	5.12E+04	
b202	Cerium	6/7/91	B0BC06	0.99	51.299	mg/kg	S	DUPLICATE RESULT	TCD	Ce	5.08E+04	
B110	Cerium	4/1/90	Core Composite 2	1.33	37.548373	ug/g	I	PRIMARY	B110 Core Data	Ce	4.99E+04	
t111	Cerium	11/1/91	B08ST9	1.11	44.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.96E+04	
t111	Cerium	11/1/91	B08SX5	1.06	45.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.83E+04	
t107	Cerium	3/1/93	B08TZ2	1.29	36.8	ug/g	S	PRIMARY RESULT	TCD	Ce	4.75E+04	
s104	Cerium	8/1/92	B08TJ4	1.6	29.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.69E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Cerium	8/1/92	B08TJ4		29.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.69E+04	
t111	Cerium	11/1/91	B08SX5	1.06	43.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	4.62E+04	
t111	Cerium	11/1/91	B08SX5	1.06	43.4	ug/g	S	PRIMARY RESULT	TCD	Ce	4.60E+04	
t111	Cerium	11/1/91	B08SX5	1.06	43.1	ug/g	S	PRIMARY RESULT	TCD	Ce	4.57E+04	
T111	Ce	8/7/92	J-410	1.06	43.1	ugm/gm	G	Sludge	Braun	Ce	4.57E+04	
s104	Cerium	8/1/92	B08S48	1.6	27.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.40E+04	
s104	Cerium	8/1/92	B08S48		27.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.40E+04	
s104	Cerium	8/1/92	B08S48	1.6	26.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.26E+04	
s104	Cerium	8/1/92	B08S48		26.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.26E+04	
t111	Cerium	11/1/91	B08SV7	1.09	38.6	ug/g	S	PRIMARY RESULT	TCD	Ce	4.21E+04	
T111	Ce	8/7/92	J-408	1.09	38.6	ugm/gm	G	Sludge	Braun	Ce	4.21E+04	
s104	Cerium	8/1/92	B08TJ4	1.6	25.8	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.13E+04	
s104	Cerium	8/1/92	B08TJ4		25.8	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.13E+04	
s104	Cerium	8/1/92	B08TL3	1.6	25.3	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.05E+04	
s104	Cerium	8/1/92	B08TL3		25.3	mg/kg	S	DUPLICATE RESULT	TCD	Ce	4.05E+04	
s104	Cerium	8/1/92	B08S48	1.6	25.1	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.02E+04	
s104	Cerium	8/1/92	B08TF7	1.6	25.1	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.02E+04	
s104	Cerium	8/1/92	B08S48		25.1	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.02E+04	
s104	Cerium	8/1/92	B08TF7		25.1	mg/kg	S	PRIMARY RESULT	TCD	Ce	4.02E+04	
t111	Cerium	11/1/91	B08ST7	0.93	41.9	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.90E+04	
s104	Cerium	8/1/92	B08S50	1.6	24.1	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.86E+04	
s104	Cerium	8/1/92	B08S50		24.1	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.86E+04	
s104	Cerium	8/1/92	B08S50	1.6	23.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.73E+04	
s104	Cerium	8/1/92	B08S50		23.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.73E+04	
t111	Cerium	11/1/91	B08SV7	1.09	34.2	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.73E+04	
s104	Cerium	8/1/92	B08TF7	1.6	23	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.68E+04	
s104	Cerium	8/1/92	B08TF7		23	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.68E+04	
t111	Cerium	11/1/91	B08SV7	1.09	33.3	ug/g	S	PRIMARY RESULT	TCD	Ce	3.63E+04	
t111	Cerium	11/1/91	B08SV7	1.09	32.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.56E+04	
t111	Cerium	11/1/91	B08ST7	0.93	38.3	ug/g	S	PRIMARY RESULT	TCD	Ce	3.56E+04	
t107	Cerium	3/1/93	B08TZ2	1.29	27.4	ug/g	S	PRIMARY RESULT	TCD	Ce	3.53E+04	
s104	Cerium	8/1/92	B08TJ5	1.6	21.8	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.49E+04	
s104	Cerium	8/1/92	B08TJ5		21.8	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.49E+04	
t111	Cerium	11/1/91	B08ST7	0.93	37.1	ug/g	S	PRIMARY RESULT	TCD	Ce	3.45E+04	
T111	Ce	8/7/92	J-402	0.93	37.1	ugm/gm	G	Sludge	Braun	Ce	3.45E+04	
t111	Cerium	11/1/91	B08ST7	0.93	36.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.42E+04	
B110	Cerium	4/1/90	Core Composite 3	1.36	24.442706	ug/g	I	PRIMARY	B110 Core Data	Ce	3.32E+04	
s104	Cerium	8/1/92	B08S50	1.6	20.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.31E+04	
s104	Cerium	8/1/92	B08S50		20.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.31E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Cerium	8/1/92	B08TF6	1.6	20.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.26E+04	
s104	Cerium	8/1/92	B08TF6		20.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.26E+04	
s104	Cerium	8/1/92	B08TL3	1.6	20.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.25E+04	
s104	Cerium	8/1/92	B08TL3		20.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	3.25E+04	
s104	Cerium	8/1/92	B08TJ5	1.6	19.9	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.18E+04	
s104	Cerium	8/1/92	B08TJ5		19.9	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.18E+04	
s104	Cerium	8/1/92	B08TL4	1.6	19.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.12E+04	
s104	Cerium	8/1/92	B08TL4		19.5	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.12E+04	
t107	Cerium	3/1/93	B08TZ2	1.29	24.1	ug/g	S	DUPLICATE RESULT	TCD	Ce	3.11E+04	
s104	Cerium	8/1/92	B08S50	1.6	19	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.04E+04	
s104	Cerium	8/1/92	B08S50		19	mg/kg	S	DUPLICATE RESULT	TCD	Ce	3.04E+04	
B110	Cerium	4/1/90	Core Composite 1	1.36	21.900475	ug/g	I	DUPLICATE	B110 Core Data	Ce	2.98E+04	
s104	Cerium	8/1/92	B08TF6	1.6	18.4	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.94E+04	
s104	Cerium	8/1/92	B08TF6		18.4	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.94E+04	
t107	Cerium	3/1/93	B08TZ2	1.29	20.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	2.66E+04	
s104	Cerium	8/1/92	B08TL4	1.6	16.5	mg/kg	S	PRIMARY RESULT	TCD	Ce	2.64E+04	
s104	Cerium	8/1/92	B08TL4		16.5	mg/kg	S	PRIMARY RESULT	TCD	Ce	2.64E+04	
s104	Cerium	8/1/92	B08S46	1.6	15.3	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.45E+04	
s104	Cerium	8/1/92	B08S46		15.3	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.45E+04	
b202	Cerium	6/7/91	B08SP8	0.98	24.6808	mg/kg	S	DUPLICATE RESULT	TCD	Ce	2.42E+04	
B110	Cerium	4/1/90	Core Composite 18	1.37	16.312287	ug/g	I	PRIMARY	B110 Core Data	Ce	2.23E+04	
B110	Cerium	4/1/90	Core Composite 4	1.36	15.354244	ug/g	I	DUPLICATE	B110 Core Data	Ce	2.09E+04	
s104	Cerium	8/1/92	B08S46	1.6	12.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.98E+04	
s104	Cerium	8/1/92	B08S46		12.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.98E+04	
B110	Cerium	4/1/90	Core Composite 10	1.34	14.671003	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.97E+04	
b202	Cerium	6/7/91	B08SP5	0.87	22.5	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.96E+04	
s104	Cerium	8/1/92	B08S46	1.6	12.2	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.95E+04	
s104	Cerium	8/1/92	B08S46		12.2	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.95E+04	
s104	Cerium	8/1/92	B08S46	1.6	12.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.95E+04	
s104	Cerium	8/1/92	B08S46		12.2	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.95E+04	
t111	Cerium	11/1/91	B08ST5	0.88	19.4	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.71E+04	
B110	Cerium	4/1/90	Core Composite 3	1.36	12.221353	ug/g	I	PRIMARY	B110 Core Data	Ce	1.66E+04	
B110	Cerium	4/1/90	Core Composite 10	1.34	12.225836	ug/g	I	PRIMARY	B110 Core Data	Ce	1.64E+04	
s104	Cerium	8/1/92	B08TF7	1.6	10	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.60E+04	
s104	Cerium	8/1/92	B08TF7		10	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.60E+04	
BX107	Ce	10/20/92	J924-AV		9.986	ugm/gm	G	Sludge/Composite	Braun	Ce	1.60E+04	
BX107	Ce	10/20/92	J926-AV		9.986	ugm/gm	G	Sludge/Composite	Braun	Ce	1.60E+04	
s104	Cerium	8/1/92	B08TF6	1.6	9.96	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.59E+04	
s104	Cerium	8/1/92	B08TF7	1.6	9.96	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.59E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Cerium	8/1/92	B08TF6		9.96	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.59E+04	
s104	Cerium	8/1/92	B08TF7		9.96	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.59E+04	
BX107	Ce	10/20/92	J927-AV		9.9562	ugm/gm	G	Sludge/Composite	Braun	Ce	1.59E+04	
b202	Cerium	6/7/91	B08SP5	0.87	18.2072	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.58E+04	
s104	Cerium	8/1/92	B08TF6	1.6	9.9	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.58E+04	
s104	Cerium	8/1/92	B08TF6		9.9	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.58E+04	
t107	Cerium	3/1/93	B08V43	1.15	12.8	ug/g	S	PRIMARY RESULT	TCD	Ce	1.47E+04	
t107	Cerium	3/1/93	B08V43	1.15	12.8	ug/g	S	PRIMARY RESULT	TCD	Ce	1.47E+04	
t107	Cerium	3/1/93	B08V43	1.15	12.7	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.46E+04	
t107	Cerium	3/1/93	B08V43	1.15	12.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.45E+04	
t111	Cerium	11/1/91	B08ST5	0.88	16.3	ug/g	S	PRIMARY RESULT	TCD	Ce	1.43E+04	
T111	Ce	8/7/92	J-398	0.88	16.3	ugm/gm	G	Sludge	Braun	Ce	1.43E+04	
s104	Cerium	8/1/92	B08TL3	1.6	8.77	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL3		8.77	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL4	1.6	8.76	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL4		8.76	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.40E+04	
BX107	Ce	10/20/92	J925-AV		8.76	ugm/gm	G	Sludge/Composite	Braun	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL3	1.6	8.75	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL4	1.6	8.75	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL3		8.75	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TL4		8.75	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.40E+04	
s104	Cerium	8/1/92	B08TJ5	1.6	8.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.39E+04	
s104	Cerium	8/1/92	B08TJ5		8.7	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.39E+04	
s104	Cerium	8/1/92	B08TJ5	1.6	8.69	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.39E+04	
s104	Cerium	8/1/92	B08TJ5		8.69	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.39E+04	
b202	Cerium	6/7/91	B08SP5	0.87	15.9	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.38E+04	
s104	Cerium	8/1/92	B08TJ4	1.6	8.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.38E+04	
s104	Cerium	8/1/92	B08TJ4		8.6	mg/kg	S	DUPLICATE RESULT	TCD	Ce	1.38E+04	
s104	Cerium	8/1/92	B08TJ4	1.6	8.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.38E+04	
s104	Cerium	8/1/92	B08TJ4		8.6	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.38E+04	
t111	Cerium	11/1/91	B08ST5	0.88	15.5	ug/g	S	PRIMARY RESULT	TCD	Ce	1.36E+04	
B110	Cerium	4/1/90	Core Composite 9	1.32	9.95067	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.31E+04	
C102	Ce	2/1/91	2		8.2	mg/kg	S	water leach	RAW	Ce	1.31E+04	
B110	Cerium	4/1/90	Core Composite 18	1.37	9.2019	ug/g	I	DUPLICATE	B110 Core Data	Ce	1.26E+04	
b202	Cerium	6/7/91	B08SP5	0.87	14.3	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.24E+04	
b202	Cerium	6/7/91	B08SP5	0.87	12.4018	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.08E+04	
b202	Cerium	6/7/91	B08SP5	0.87	12.4	mg/kg	S	PRIMARY RESULT	TCD	Ce	1.08E+04	
t111	Cerium	11/1/91	B08ST5	0.88	11.6	ug/g	S	DUPLICATE RESULT	TCD	Ce	1.02E+04	
B110	Cerium	4/1/90	Core Composite 1	1.36	7.300158	ug/g	I	PRIMARY	B110 Core Data	Ce	9.93E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Single-Shell Tank Solids [Sketch ES-VAL-CC12]
 ASA Value: 9.01E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Cerium	4/1/90	Core Composite 9	1.32	7.463002	ug/g	I	PRIMARY	B110 Core Data	Ce	9.85E+03	
t107	Cerium	3/1/93	B08TZ2	1.29	6.8	ug/g	S	DUPLICATE RESULT	TCD	Ce	8.77E+03	
t107	Cerium	3/1/93	B08TZ2	1.29	6.61	ug/g	S	PRIMARY RESULT	TCD	Ce	8.53E+03	
t107	Cerium	3/1/93	B08V43	1.15	6.77	ug/g	S	PRIMARY RESULT	TCD	Ce	7.79E+03	
t107	Cerium	3/1/93	B08V43	1.15	6.69	ug/g	S	DUPLICATE RESULT	TCD	Ce	7.69E+03	
B110	Cerium	4/1/90	Core Composite 3	1.36	4.888541	ug/g	I	DUPLICATE	B110 Core Data	Ce	6.65E+03	
t105	Cerium	5/28/93	B08WT2	0.89	6.99	ug/g	S	PRIMARY RESULT	TCD	Ce	6.22E+03	
t105	Cerium	5/28/93	B08WT2	0.89	6.97	ug/g	S	DUPLICATE RESULT	TCD	Ce	6.20E+03	
t107	Cerium	3/1/93	B08V43	1.15	5.3	ug/g	S	PRIMARY RESULT	TCD	Ce	6.10E+03	
B110	Cerium	4/1/90	Core Composite 4	1.36	4.386927	ug/g	I	PRIMARY	B110 Core Data	Ce	5.97E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
C102	Ce	2/1/91	2		0.41	ug/mL	S	water leach	RAW	Ce	4.10E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Liquids [Sketch ES-VAL-CC13]
 ASA Value: 5.32E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 5.32E+06 ug/L												
C112	Total CN	3/1/92		1.4	3800	ug/g	L	Total Cyanide	TCD	CN	5.32E+06	*
c112	Cyanide	3/1/92	B08DZ5	1.4	1030	ug/g	L	PRIMARY RESULT	TCD	CN	1.44E+06	
c112	Cyanide	3/1/92	B08DZ5	1.4	1020	ug/g	L	DUPLICATE RESULT	TCD	CN	1.43E+06	
B108	Fe(CN)				82.3	g-moles	L		TRAC	CN	1.10E+06	
BX110	Fe(CN)				977	g-moles	L		TRAC	CN	3.03E+05	
BX111	Fe(CN)				1000	g-moles	L		TRAC	CN	2.40E+05	
BY109	Fe(CN)				417	g-moles	L		TRAC	CN	2.28E+05	
BY101	Fe(CN)				1290	g-moles	L		TRAC	CN	1.69E+05	
t107	Cyanide	3/1/93	B08V58	1.2	152	ug/mL	L	PRIMARY RESULT	TCD	CN	1.52E+05	
TX110	CN	3/15/65	RAT-TX110-3	1.418	100	ppm	P	Supernate	Braun	CN	1.42E+05	
U103	CN	3/15/65	RAT-U103-2	1.387	100	ppm	U	Unknown	Braun	CN	1.39E+05	
U103	CN-	3/15/65		1.387	100	ppm	L		RAW	CN	1.39E+05	
U106	CN-	3/15/65		1.303	100	ppm	U	Evaporator Feed	RAW	CN	1.30E+05	
U106	CN	3/15/65	RAT-U106-1	1.3	100	ppm	P	Supernate	Braun	CN	1.30E+05	
C102	CN	6/3/91	R-8089	1.15	105	ppm	P	Supernate	Braun	CN	1.21E+05	
BY110	Fe(CN)				1170	g-moles	L		TRAC	CN	1.03E+05	
BY104	Fe(CN)				1310	g-moles	L		TRAC	CN	1.01E+05	
BY106	Fe(CN)				1300	g-moles	L		TRAC	CN	9.64E+04	
BY111	Fe(CN)				1320	g-moles	L		TRAC	CN	9.53E+04	
BY108	Fe(CN)				722	g-moles	L		TRAC	CN	9.25E+04	
C102	CN-	6/3/91			0.0913	g/L	P	Supernate	Wastren	CN	9.13E+04	
BY112	Fe(CN)				242	g-moles	L		TRAC	CN	8.25E+04	
C107	CN	6/3/91	R-8046	1.14	70.7	ppm	P	Supernate	Braun	CN	8.06E+04	
BY105	Fe(CN)				1020	g-moles	L		TRAC	CN	7.90E+04	
BY107	Fe(CN)				476	g-moles	L		TRAC	CN	6.81E+04	
C107	CN-	6/3/91			0.062	g/L	L	Drainable Liquid	Wastren	CN	6.20E+04	
BY102	CN	6/3/91	R-8081	1.42	29.4	ppm	P	Supernate	Braun	CN	4.17E+04	
t107	Cyanide	3/1/93	B08VB5	1.1	40	ug/mL	L	PRIMARY RESULT	TCD	CN	4.00E+04	
t107	Cyanide	3/1/93	B08VB5	1.1	39.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	3.96E+04	
T108	Fe(CN)				30.4	g-moles	L		TRAC	CN	3.15E+04	
C109	Fe(CN)				31.5	g-moles	L		TRAC	CN	2.39E+04	
C101	Fe(CN)				3.59	g-moles	L		TRAC	CN	2.15E+04	
BY102	CN-	6/3/91			0.0207	g/L	P	Supernate	Wastren	CN	2.07E+04	
C111	Fe(CN)				23.1	g-moles	L		TRAC	CN	1.88E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Liquids [Sketch ES-VAL-CC13]
 ASA Value: 5.32E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B109	Fe(CN)				25.5	g-moles	L		TRAC	CN	1.72E+04	
t107	Cyanide	3/1/93	B08V16	1.02	13.5	ug/mL	L	PRIMARY RESULT	TCD	CN	1.35E+04	
t107	Cyanide	3/1/93	B08V16	1.02	13.5	ug/mL	L	PRIMARY RESULT	TCD	CN	1.35E+04	
t107	Cyanide	3/1/93	B08V16	1.02	13.4	ug/mL	L	DUPLICATE RESULT	TCD	CN	1.34E+04	
t107	Cyanide	3/1/93	B08V16	1.02	13.4	ug/mL	L	DUPLICATE RESULT	TCD	CN	1.34E+04	
B107	Fe(CN)				33.9	g-moles	L		TRAC	CN	9.33E+03	
BX109	Fe(CN)				29.3	g-moles	L		TRAC	CN	6.46E+03	
S110	Fe(CN)				75.3	g-moles	L		TRAC	CN	5.36E+03	
S111	Fe(CN)				68.5	g-moles	L		TRAC	CN	5.21E+03	
C112	Fe(CN)				6.95	g-moles	L		TRAC	CN	3.13E+03	
SX104	Fe(CN)				24	g-moles	L		TRAC	CN	3.09E+03	
TY104	Fe(CN)				2.84	g-moles	L		TRAC	CN	2.76E+03	
c110	Cyanide	4/23/92	B08VM5	1	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VM5	1	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VH6	1.18	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VH6	1.18	2.65	ug/mL	L	PRIMARY RESULT	TCD	CN	2.65E+03	
c110	Cyanide	4/23/92	B08VM5	1	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VM5	1	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VP9	1.1	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VH6	1.18	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
c110	Cyanide	4/23/92	B08VH6	1.18	2.6	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.60E+03	
S101	Fe(CN)				13.4	g-moles	L		TRAC	CN	2.59E+03	
TY103	Fe(CN)				5.7	g-moles	L		TRAC	CN	1.67E+03	
TY102	Fe(CN)				2.07	g-moles	L		TRAC	CN	1.46E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
T109	Fe(CN)				2.96	g-moles	L		TRAC	CN	8.93E+02	
t104	Cyanide	8/26/92	B08TQ7	1.1	0.715	ug/mL	L	DUPLICATE RESULT	TCD	CN	7.15E+02	
t104	Cyanide	8/26/92	B08TQ7	1.1	0.692	ug/mL	L	PRIMARY RESULT	TCD	CN	6.92E+02	
S108	Fe(CN)				3.24	g-moles	L		TRAC	CN	2.39E+02	
BX108	Fe(CN)				0.0517	g-moles	L		TRAC	CN	1.08E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cyanide Single-Shell Tank Liquids [Sketch ES-VAL-CC13]

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ASA Value: 5.32E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
A105	Fe(CN)				0.0226	g-moles	L		TRAC	CN	5.50E+01	
AX103	Fe(CN)				0.14	g-moles	L		TRAC	CN	5.13E+01	
TX102	Fe(CN)				0.0878	g-moles	L		TRAC	CN	1.22E+01	
SX105	Fe(CN)				0.133	g-moles	L		TRAC	CN	9.86E+00	
TX111	Fe(CN)				0.0153	g-moles	L		TRAC	CN	1.73E+00	
B103	Fe(CN)				0.00341	g-moles	L		TRAC	CN	1.69E+00	
T102	Fe(CN)				0.000362	g-moles	L		TRAC	CN	1.07E+00	
A103	Fe(CN)				0.00374	g-moles	L		TRAC	CN	3.26E-01	
SX106	Fe(CN)				0.00341	g-moles	L		TRAC	CN	3.17E-01	
U102	Fe(CN)				0.00249	g-moles	L		TRAC	CN	2.92E-01	
S106	Fe(CN)				0.00333	g-moles	L		TRAC	CN	2.61E-01	
TX110	Fe(CN)				0.00211	g-moles	L		TRAC	CN	1.81E-01	
U107	Fe(CN)				0.00122	g-moles	L		TRAC	CN	1.39E-01	
B102	Fe(CN)				0.000107	g-moles	L		TRAC	CN	9.92E-02	
C107	Fe(CN)				0.000474	g-moles	L		TRAC	CN	6.98E-02	
U111	Fe(CN)				0.000206	g-moles	L		TRAC	CN	6.92E-02	
T101	Fe(CN)				0.00016	g-moles	L		TRAC	CN	5.46E-02	
B106	Fe(CN)				5.52E-05	g-moles	L		TRAC	CN	3.01E-02	
T103	Fe(CN)				1.06E-05	g-moles	L		TRAC	CN	2.02E-02	
TX109	Fe(CN)				0.000124	g-moles	L		TRAC	CN	1.37E-02	
TX105	Fe(CN)				3.95E-05	g-moles	L		TRAC	CN	3.08E-03	
TX103	Fe(CN)				5.7E-06	g-moles	L		TRAC	CN	1.24E-03	
TX104	Fe(CN)				1.49E-08	g-moles	L		TRAC	CN	9.71E-06	
C110	Fe(CN)				1.04E-08	g-moles	L		TRAC	CN	2.23E-06	
A106	Fe(CN)				3.73E-09	g-moles	L		TRAC	CN	1.56E-06	
S102	Fe(CN)				4.96E-09	g-moles	L		TRAC	CN	5.94E-07	
SX101	Fe(CN)				2E-10	g-moles	L		TRAC	CN	5.61E-08	
S107	Fe(CN)				5.82E-11	g-moles	L		TRAC	CN	2.50E-08	
C108	Fe(CN)				8.9E-13	g-moles	L		TRAC	CN	7.68E-09	
C104	Fe(CN)				9.35E-12	g-moles	L		TRAC	CN	2.22E-09	
U106	Fe(CN)				4.55E-13	g-moles	L		TRAC	CN	8.88E-11	
AX101	Fe(CN)				6.17E-13	g-moles	L		TRAC	CN	3.61E-11	
BX112	Fe(CN)				1.81E-14	g-moles	L		TRAC	CN	5.90E-12	
T107	Fe(CN)				1.26E-14	g-moles	L		TRAC	CN	3.25E-12	
C102	Fe(CN)				1.39E-16	g-moles	L		TRAC	CN	2.36E-14	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Liquids [Sketch ES-VAL-CC13]
 ASA Value: 5.32E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX102	Fe(CN)				6.94E-18		g-moles	L		TRAC	CN	5.79E-15	
BX101	Fe(CN)				8.38E-24		g-moles	L		TRAC	CN	1.33E-20	
B101	Fe(CN)				2.08E-34		g-moles	L		TRAC	CN	9.86E-32	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cyanide Single-Shell Tank Solids [Sketch ES-VAL-CC14]
ASA Value: 2.81E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
T107	Fe(CN)-4(6)	12/4/91			5000	M	G	core segment	RAW	CN	7.80E+11	29
BY110	Fe(CN)				46230	g-moles	S		TRAC	CN	4.10E+08	29
C109	Fe(CN)				31468.5	g-moles	S		TRAC	CN	3.87E+08	29
C112	Fe(CN)				48793.05	g-moles	S		TRAC	CN	2.06E+08	29
BY108	Fe(CN)				29478	g-moles	S		TRAC	CN	1.01E+08	29
C111	Fe(CN)				14876.9	g-moles	S		TRAC	CN	8.79E+07	29
BY104	Fe(CN)				111690	g-moles	S		TRAC	CN	8.39E+07	29
BY107	Fe(CN)				29624	g-moles	S		TRAC	CN	8.21E+07	29
BY105	Fe(CN)				66880	g-moles	S		TRAC	CN	5.49E+07	29
BY106	Fe(CN)				31700	g-moles	S		TRAC	CN	5.02E+07	29
BY102	Fe(CN)6	12/4/91			0.1	M	G	Sludge	RAW	CN	1.56E+07	29
BY105	Fe(CN)6	12/4/91			0.1	M	G	Sludge	RAW	CN	1.56E+07	29
C112	Fe(CN)6	12/4/91			0.1	M	G	Sludge	RAW	CN	1.56E+07	29
Preliminary ASA Value: 1.6E+07 ug/L												29
C111	Fe(CN)6	12/4/91			0.09	M	G	Sludge	RAW	CN	1.40E+07	29
C108	Fe(CN)6	12/4/91			0.09	M	G	Sludge	RAW	CN	1.40E+07	29
BY111	Fe(CN)6	12/4/91			0.09	M	G	Sludge	RAW	CN	1.40E+07	29
BY112	Fe(CN)6	12/4/91			0.08	M	G	Sludge	RAW	CN	1.25E+07	29
BY110	Fe(CN)6	12/4/91			0.08	M	G	Sludge	RAW	CN	1.25E+07	29
BY106	Fe(CN)6	12/4/91			0.08	M	G	Sludge	RAW	CN	1.25E+07	29
BY104	Fe(CN)6	12/4/91			0.08	M	G	Sludge	RAW	CN	1.25E+07	29
BY103	Fe(CN)6	12/4/91			0.08	M	G	Sludge	RAW	CN	1.25E+07	29
U110	Cyanide (ug/g)	12/1/89	Core Composite 12	1.42	8000	ug/g	I	PRIMARY	U110 Core Data	CN	1.14E+07	20
C109	Fe(CN)6	12/4/91			0.07	M	G	Sludge	RAW	CN	1.09E+07	29
BY108	Fe(CN)6	12/4/91			0.07	M	G	Sludge	RAW	CN	1.09E+07	29
BY107	Fe(CN)6	12/4/91			0.07	M	G	Sludge	RAW	CN	1.09E+07	29
U110	Cyanide (ug/g)	12/1/89	Core Composite 12	1.42	6680	ug/g	I	DUPLICATE	U110 Core Data	CN	9.49E+06	20
BY111	Fe(CN)				1450	g-moles	S		TRAC	CN	8.03E+06	29
C108	Fe(CN)				9400	g-moles	S		TRAC	CN	6.96E+06	29
TY104	Fe(CN)6	12/4/91			0.04	M	G	Sludge	RAW	CN	6.24E+06	29
TY103	Fe(CN)6	12/4/91			0.04	M	G	Sludge	RAW	CN	6.24E+06	29
TY101	Fe(CN)6	12/4/91			0.04	M	G	Sludge	RAW	CN	6.24E+06	29
T101	Fe(CN)				94.89984	g-moles	S		TRAC	CN	4.21E+06	29
B103	Fe(CN)				198.99659	g-moles	S		TRAC	CN	3.53E+06	29
ASA Value: 2.81E+06 ug/L												
c112	Cyanide	3/1/92	B08DM6	1.5	1870	ug/g	S	PRIMARY RESULT	TCD	CN	2.81E+06	*
c112	Cyanide	3/1/92	B08DM6	1.5	1840	ug/g	S	DUPLICATE RESULT	TCD	CN	2.76E+06	
c112	Cyanide	3/1/92	B08DM7	1.6	1620	ug/g	S	PRIMARY RESULT	TCD	CN	2.59E+06	
c112	Cyanide	3/1/92	B08DM7	1.6	1540	ug/g	S	DUPLICATE RESULT	TCD	CN	2.46E+06	
c112	Cyanide	3/1/92	B08DM7	1.6	1440	ug/g	S	DUPLICATE RESULT	TCD	CN	2.30E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Solids [Sketch ES-VAL-CC14]
 ASA Value: 2.81E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Cyanide	3/1/92	B08DM7	1.6	1440	ug/g	S	PRIMARY RESULT	TCD	CN	2.30E+06	
c112	Cyanide	3/1/92	B08DM7	1.6	1330	ug/g	S	DUPLICATE RESULT	TCD	CN	2.13E+06	
BX102	Fe(CN)				2599	g-moles	S		TRAC	CN	2.05E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	1220	ug/g	S	PRIMARY RESULT	TCD	CN	1.95E+06	
c109	Cyanide	9/1/92	B08T16	1.3	1478	ug/g	S	DUPLICATE RESULT	TCD	CN	1.92E+06	
U110	Cyanide (ug/g)	12/1/89	Core Composite 8		1200	ug/g	I	PRIMARY	U110 Core Data	CN	1.92E+06	
c109	Cyanide	9/1/92	B08T16	1.3	1473	ug/g	S	PRIMARY RESULT	TCD	CN	1.91E+06	
c112	Cyanide	3/1/92	B08DM7	1.6	1150	ug/g	S	PRIMARY RESULT	TCD	CN	1.84E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	1130	ug/g	S	DUPLICATE RESULT	TCD	CN	1.81E+06	
c109	Cyanide	9/1/92	B08T16	1.3	1370	ug/g	S	DUPLICATE RESULT	TCD	CN	1.78E+06	
U110	Cyanide (ug/g)	12/1/89	Core Composite 8		1100	ug/g	I	DUPLICATE	U110 Core Data	CN	1.76E+06	
c109	Cyanide	9/1/92	B08T16	1.3	1350	ug/g	S	PRIMARY RESULT	TCD	CN	1.76E+06	
c112	Cyanide	3/1/92	B08DY1	2	790	ug/g	S	DUPLICATE RESULT	TCD	CN	1.58E+06	
c112	Cyanide	3/1/92	B08DN6	1.3	1200	ug/g	S	DUPLICATE RESULT	TCD	CN	1.56E+06	
T107	Fe(CN)6	12/4/91			0.01	M	G	Sludge	RAW	CN	1.56E+06	
T101	Fe(CN)6	12/4/91			0.01	M	G	Sludge	RAW	CN	1.56E+06	
c112	Cyanide	3/1/92	B08DY1	2	770	ug/g	S	PRIMARY RESULT	TCD	CN	1.54E+06	
c112	Cyanide	3/1/92	B08DN6	1.3	1150	ug/g	S	PRIMARY RESULT	TCD	CN	1.50E+06	
c112	Cyanide	3/1/92	B08DN6	1.3	1140	ug/g	S	PRIMARY RESULT	TCD	CN	1.48E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	920	ug/g	S	DUPLICATE RESULT	TCD	CN	1.47E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	880	ug/g	S	PRIMARY RESULT	TCD	CN	1.41E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	860	ug/g	S	PRIMARY RESULT	TCD	CN	1.38E+06	
c112	Cyanide	3/1/92	B08DN6	1.3	1020	ug/g	S	DUPLICATE RESULT	TCD	CN	1.33E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	780	ug/g	S	DUPLICATE RESULT	TCD	CN	1.25E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	740	ug/g	S	DUPLICATE RESULT	TCD	CN	1.18E+06	
c112	Cyanide	3/1/92	B08DN8	1.6	730	ug/g	S	PRIMARY RESULT	TCD	CN	1.17E+06	
c109	Cyanide	9/1/92	B08T15	1.2	910	ug/g	S	PRIMARY RESULT	TCD	CN	1.09E+06	
c109	Cyanide	9/1/92	B08T15	1.2	900	ug/g	S	DUPLICATE RESULT	TCD	CN	1.08E+06	
c109	Cyanide	9/1/92	B08T15	1.2	840	ug/g	S	PRIMARY RESULT	TCD	CN	1.01E+06	
c109	Cyanide	9/1/92	B08T15	1.2	812	ug/g	S	DUPLICATE RESULT	TCD	CN	9.74E+05	
c109	Cyanide	9/1/92	B08T17	1.2	730	ug/g	S	DUPLICATE RESULT	TCD	CN	8.76E+05	
c109	Cyanide	9/1/92	B08T17	1.2	700	ug/g	S	PRIMARY RESULT	TCD	CN	8.40E+05	
c109	Cyanide	9/1/92	B08T17	1.2	670	ug/g	S	DUPLICATE RESULT	TCD	CN	8.04E+05	
c109	Cyanide	9/1/92	B08T17	1.2	620	ug/g	S	PRIMARY RESULT	TCD	CN	7.44E+05	
c109	Cyanide	9/1/92	B08T15	1.2	590	ug/g	S	DUPLICATE RESULT	TCD	CN	7.08E+05	
c109	Cyanide	9/1/92	B08T15	1.2	550	ug/g	S	PRIMARY RESULT	TCD	CN	6.60E+05	
BY112	Fe(CN)				1968	g-moles	S		TRAC	CN	4.85E+05	
AX104	Fe(CN)				68.5	g-moles	S		TRAC	CN	4.71E+05	
c109	Cyanide	9/1/92	B08T17	1.2	380	ug/g	S	DUPLICATE RESULT	TCD	CN	4.56E+05	
c109	Cyanide	9/1/92	B08T17	1.2	350	ug/g	S	PRIMARY RESULT	TCD	CN	4.20E+05	
B101	Fe(CN)				85.4	g-moles	S		TRAC	CN	3.98E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Solids [Sketch ES-VAL-CC14]
 ASA Value: 2.81E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S110	Fe(CN)				270.7	g-moles	S		TRAC	CN	1.74E+05	
t107	Cyanide	3/1/93	B08V39	1.57	95.7	ug/g	S	PRIMARY RESULT	TCD	CN	1.50E+05	
t107	Cyanide	3/1/93	B08V39	1.57	94.8	ug/g	S	DUPLICATE RESULT	TCD	CN	1.49E+05	
B112	Fe(CN)				267	g-moles	S		TRAC	CN	1.44E+05	
B102	Fe(CN)				10.299893	g-moles	S		TRAC	CN	1.43E+05	
t107	Cyanide	3/1/93	B08V43	1.15	110	ug/g	S	PRIMARY RESULT	TCD	CN	1.27E+05	
t107	Cyanide	3/1/93	B08V43	1.15	109	ug/g	S	DUPLICATE RESULT	TCD	CN	1.25E+05	
BY104	CN-	11/12/92			0.121	g/L	K	Saltcake	Wastren	CN	1.21E+05	
BY104	CN	11/12/92	R-1775		75.1	ugm/gm	T	Crust	Braun	CN	1.20E+05	
t107	Cyanide	3/1/93	B08V43	1.15	103	ug/g	S	PRIMARY RESULT	TCD	CN	1.18E+05	
t107	Cyanide	3/1/93	B08V43	1.15	102	ug/g	S	DUPLICATE RESULT	TCD	CN	1.17E+05	
BY104	CN	11/12/92	R-1773		69	ugm/gm	T	Crust	Braun	CN	1.10E+05	
t107	Cyanide	3/1/93	B08V44	1.1	94.2	ug/g	S	PRIMARY RESULT	TCD	CN	1.04E+05	
t107	Cyanide	3/1/93	B08V44	1.1	88.8	ug/g	S	DUPLICATE RESULT	TCD	CN	9.77E+04	
C106	CN-	7/22/88			60	mg/kg	G	Sludge	RAW	CN	9.60E+04	
t107	Cyanide	3/1/93	B08VR2	1.735	52.6	ug/g	S	DUPLICATE RESULT	TCD	CN	9.13E+04	
t107	Cyanide	3/1/93	B08TZ2	1.29	65.6	ug/g	S	PRIMARY RESULT	TCD	CN	8.46E+04	
t107	Cyanide	3/1/93	B08VD9	1.305	63.4	ug/g	S	PRIMARY RESULT	TCD	CN	8.27E+04	
t107	Cyanide	3/1/93	B08TZ2	1.29	62.5	ug/g	S	DUPLICATE RESULT	TCD	CN	8.06E+04	
t107	Cyanide	3/1/93	B08VD9	1.305	60	ug/g	S	DUPLICATE RESULT	TCD	CN	7.83E+04	
t107	Cyanide	3/1/93	B08VR2	1.735	44.3	ug/g	S	PRIMARY RESULT	TCD	CN	7.69E+04	
t107	Cyanide	3/1/93	B08VF0	1.38	53.7	ug/g	S	DUPLICATE RESULT	TCD	CN	7.41E+04	
t107	Cyanide	3/1/93	B08VB9	1.19	61.3	ug/g	S	DUPLICATE RESULT	TCD	CN	7.29E+04	
t107	Cyanide	3/1/93	B08VF0	1.38	50.5	ug/g	S	PRIMARY RESULT	TCD	CN	6.97E+04	
BY103	Fe(CN)				1602.8	g-moles	S		TRAC	CN	6.64E+04	
t107	Cyanide	3/1/93	B08V44	1.1	57.4	ug/g	S	PRIMARY RESULT	TCD	CN	6.31E+04	
t107	Cyanide	3/1/93	B08VF0	1.38	45.7	ug/g	S	DUPLICATE RESULT	TCD	CN	6.31E+04	
t107	Cyanide	3/1/93	B08V44	1.1	57.2	ug/g	S	DUPLICATE RESULT	TCD	CN	6.29E+04	
t107	Cyanide	3/1/93	B08VB9	1.19	51.4	ug/g	S	PRIMARY RESULT	TCD	CN	6.12E+04	
BX101	Fe(CN)				24.3	g-moles	S		TRAC	CN	5.95E+04	
t107	Cyanide	3/1/93	B08VF0	1.38	41.4	ug/g	S	PRIMARY RESULT	TCD	CN	5.71E+04	
TX118	Fe(CN)				2820	g-moles	S		TRAC	CN	5.71E+04	
t107	Cyanide	3/1/93	B08VB9	1.19	46.9	ug/g	S	DUPLICATE RESULT	TCD	CN	5.58E+04	
t107	Cyanide	3/1/93	B08VB9	1.19	44.9	ug/g	S	PRIMARY RESULT	TCD	CN	5.34E+04	
S111	Fe(CN)				47.5	g-moles	S		TRAC	CN	5.26E+04	
SX105	Fe(CN)				98.867	g-moles	S		TRAC	CN	4.87E+04	
t107	Cyanide	3/1/93	B08VD8	1.42	31.5	ug/g	S	PRIMARY RESULT	TCD	CN	4.47E+04	
t107	Cyanide	3/1/93	B08TZ3	0.95	46.2	ug/g	S	DUPLICATE RESULT	TCD	CN	4.39E+04	
t107	Cyanide	3/1/93	B08VD8	1.42	30.5	ug/g	S	DUPLICATE RESULT	TCD	CN	4.33E+04	
t107	Cyanide	3/1/93	B08TZ3	0.95	39.2	ug/g	S	PRIMARY RESULT	TCD	CN	3.72E+04	
BX103	Fe(CN)				570	g-moles	S		TRAC	CN	3.29E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Solids [Sketch ES-VAL-CC14]
 ASA Value: 2.81E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SX101	Fe(CN)				163	g-moles	S		TRAC	CN	2.31E+04	
t105	Cyanide	5/28/93	B08WT2	0.89	25.1	ug/g	S	DUPLICATE RESULT	TCD	CN	2.23E+04	
t105	Cyanide	5/28/93	B08WT4	2.01	6.67	ug/g	S	DUPLICATE RESULT	TCD	CN	1.34E+04	
U110	Cyanide (ug/g)	12/1/89	Core Composite 13	1.3	10	ug/g	I	PRIMARY	U110 Core Data	CN	1.30E+04	
C105	Fe(CN)				70.9448	g-moles	S		TRAC	CN	1.20E+04	
t105	Cyanide	5/28/93	B08WT4	2.01	5.84	ug/g	S	PRIMARY RESULT	TCD	CN	1.17E+04	
U110	Cyanide (ug/g)	12/1/89	Core Composite 13	1.3	9	ug/g	I	DUPLICATE	U110 Core Data	CN	1.17E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
B202	CN-	12/31/91			0.00875	g/L	G	Sludge	Wastren	CN	8.75E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 15	1.29	6	ug/g	I	PRIMARY	U110 Core Data	CN	7.74E+03	
AX101	Fe(CN)				0.689	g-moles	S		TRAC	CN	7.64E+03	
S104	CN-	4/13/90			0.00707	g/L	G	Sludge	Wastren	CN	7.07E+03	
t105	Cyanide	5/28/93	B08WT2	0.89	7.85	ug/g	S	PRIMARY RESULT	TCD	CN	6.99E+03	
s104	Cyanide	8/1/92	B08TL3	1.6	4.3	ug/g	S	PRIMARY RESULT	TCD	CN	6.88E+03	
s104	Cyanide	8/1/92	B08TL3		4.3	ug/g	S	PRIMARY RESULT	TCD	CN	6.88E+03	
s104	Cyanide	8/1/92	B08TJ4	1.6	4.15	ug/g	S	PRIMARY RESULT	TCD	CN	6.64E+03	
s104	Cyanide	8/1/92	B08TJ4		4.15	ug/g	S	PRIMARY RESULT	TCD	CN	6.64E+03	
s104	Cyanide	8/1/92	B08TF6	1.6	4.12	ug/g	S	DUPLICATE RESULT	TCD	CN	6.59E+03	
s104	Cyanide	8/1/92	B08TF6		4.12	ug/g	S	DUPLICATE RESULT	TCD	CN	6.59E+03	
s104	Cyanide	8/1/92	B08TJ5	1.6	4.08	ug/g	S	PRIMARY RESULT	TCD	CN	6.53E+03	
s104	Cyanide	8/1/92	B08TJ5		4.08	ug/g	S	PRIMARY RESULT	TCD	CN	6.53E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 15	1.29	5	ug/g	I	DUPLICATE	U110 Core Data	CN	6.45E+03	
s104	Cyanide	8/1/92	B08TF6	1.6	3.96	ug/g	S	PRIMARY RESULT	TCD	CN	6.34E+03	
s104	Cyanide	8/1/92	B08TF6		3.96	ug/g	S	PRIMARY RESULT	TCD	CN	6.34E+03	
s104	Cyanide	8/1/92	B08TL3	1.6	3.94	ug/g	S	DUPLICATE RESULT	TCD	CN	6.30E+03	
s104	Cyanide	8/1/92	B08TL3		3.94	ug/g	S	DUPLICATE RESULT	TCD	CN	6.30E+03	
s104	Cyanide	8/1/92	B08TJ4	1.6	3.84	ug/g	S	DUPLICATE RESULT	TCD	CN	6.14E+03	
s104	Cyanide	8/1/92	B08TJ4		3.84	ug/g	S	DUPLICATE RESULT	TCD	CN	6.14E+03	
s104	Cyanide	8/1/92	B08TJ5	1.6	3.74	ug/g	S	DUPLICATE RESULT	TCD	CN	5.98E+03	
s104	Cyanide	8/1/92	B08TJ5		3.74	ug/g	S	DUPLICATE RESULT	TCD	CN	5.98E+03	
S112	Fe(CN)				182.9741	g-moles	S		TRAC	CN	5.84E+03	
t102	Cyanide	3/1/93	B08732	1.32	4.4	ug/g	S	DUPLICATE RESULT	TCD	CN	5.81E+03	
s104	Cyanide	8/1/92	B08TL4	1.6	3.4	ug/g	S	DUPLICATE RESULT	TCD	CN	5.44E+03	
s104	Cyanide	8/1/92	B08TL4		3.4	ug/g	S	DUPLICATE RESULT	TCD	CN	5.44E+03	
t102	Cyanide	3/1/93	B08732	1.32	3.9	ug/g	S	PRIMARY RESULT	TCD	CN	5.15E+03	
s104	Cyanide	8/1/92	B08TL4	1.6	3.21	ug/g	S	PRIMARY RESULT	TCD	CN	5.14E+03	
s104	Cyanide	8/1/92	B08TL4		3.21	ug/g	S	PRIMARY RESULT	TCD	CN	5.14E+03	
s104	Cyanide	8/1/92	B08TF7	1.6	2.98	ug/g	S	PRIMARY RESULT	TCD	CN	4.77E+03	
s104	Cyanide	8/1/92	B08TF7		2.98	ug/g	S	PRIMARY RESULT	TCD	CN	4.77E+03	
s104	Cyanide	8/1/92	B08TF7	1.6	2.72	ug/g	S	DUPLICATE RESULT	TCD	CN	4.35E+03	
s104	Cyanide	8/1/92	B08TF7		2.72	ug/g	S	DUPLICATE RESULT	TCD	CN	4.35E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Single-Shell Tank Solids [Sketch ES-VAL-CC14]
 ASA Value: 2.81E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S102	Fe(CN)				15.9	g-moles	S		TRAC	CN	3.81E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 5	1.04	2.5	ug/g	I	DUPLICATE	U110 Core Data	CN	2.60E+03	
BY109	Fe(CN)				22	g-moles	S		TRAC	CN	2.53E+03	
TX101	Fe(CN)				15.1	g-moles	S		TRAC	CN	2.23E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 5	1.04	1.65	ug/g	I	PRIMARY	U110 Core Data	CN	1.72E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 7	1.675	1	ug/g	I	PRIMARY	U110 Core Data	CN	1.68E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 7	1.675	1	ug/g	I	DUPLICATE	U110 Core Data	CN	1.68E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 14	1.48	1	ug/g	I	DUPLICATE	U110 Core Data	CN	1.48E+03	
S101	Fe(CN)				5.7	g-moles	S		TRAC	CN	1.28E+03	
TX109	Fe(CN)				1.409876	g-moles	S		TRAC	CN	1.28E+03	
S109	Fe(CN)				15.48	g-moles	S		TRAC	CN	1.05E+03	
U110	Cyanide (ug/g)	12/1/89	Core Composite 14	1.48	0.65	ug/g	I	PRIMARY	U110 Core Data	CN	9.62E+02	
SX102	Fe(CN)				17.399776	g-moles	S		TRAC	CN	9.04E+02	
BX104	Fe(CN)				7.678	g-moles	S		TRAC	CN	6.42E+02	
BY102	Fe(CN)				6	g-moles	S		TRAC	CN	6.02E+02	
T103	Fe(CN)				0.1419894	g-moles	S		TRAC	CN	5.38E+02	
BX105	Fe(CN)				5.96	g-moles	S		TRAC	CN	4.98E+02	
TX110	Fe(CN)				0.13989	g-moles	S		TRAC	CN	4.43E+02	
A102	Fe(CN)				2.7499999	g-moles	S		TRAC	CN	4.15E+02	
S107	Fe(CN)				2.07	g-moles	S		TRAC	CN	3.78E+02	
U110	Cyanide (ug/g)	12/1/89	Core Composite 6	1.54	0.13	ug/g	I	DUPLICATE	U110 Core Data	CN	2.00E+02	
U110	Cyanide (ug/g)	12/1/89	Core Composite 6	1.54	0.12	ug/g	I	PRIMARY	U110 Core Data	CN	1.85E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Liquids [Sketch ES-VAL-CC15]
 ASA Value: 1.32E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX104	Co	12/6/74	T-365	1.129	0.564	moles/l	L	Liquor	Braun	Co	3.32E+07	11
BX104	Co	12/6/74	T-365	1.129	0.564	M	L		RAW	Co	3.32E+07	11
AX102	Co	11/14/88			0.0354	g/L	P	Supernate	Wastren	Co	3.54E+04	20
AX102	Co	11/14/88	RAT-AX102-3		0.0006	moles/l	P	Supernate	Braun	Co	3.54E+04	20
ASA Value: 1.32E+03 ug/L												
A102	Co	3/6/86	91XDOOXX	1.52	1.32	mg/l	L	Liquor	Braun	Co	1.32E+03	*
A102	Cobalt	5/19/87	91XDXXXX		1.32	mg/L	L	Drainable Liquor	RAW	Co	1.32E+03	*
BX105	Co	3/4/86	82XDOOXX	1.29	1.26	mg/l	L	Liquor	Braun	Co	1.26E+03	
BX105	Cobalt	5/19/87	B2XDXXXX		1.26	mg/L	L	Drainable Liquor	RAW	Co	1.26E+03	
BX105	Cobalt	5/19/87	B2XDXXXX		1.26	mg/L	L	Drainable Liquor	RAW	Co	1.26E+03	
BX105	Co	3/4/86			0.0013	g/L	P	Supernate	Wastren	Co	1.26E+03	
BX104	Co	2/14/86	71XDOOXX	1.31	1.123	mg/l	L	Liquor	Braun	Co	1.12E+03	
A102	Co	3/8/86	92XDOOXX	1.51	1.07	mg/l	L	Liquor	Braun	Co	1.07E+03	
A102	Cobalt	5/19/87	92XDXXXX		1.07	mg/L	L	Drainable Liquor	RAW	Co	1.07E+03	
A102	Cobalt	5/19/87	92XDXXXX		1.07	mg/L	L	Drainable Liquor	RAW	Co	1.07E+03	
c110	Cobalt	4/23/92	B08VM5	1	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VM5	1	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VH6	1.18	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VH6	1.18	1.01	ug/mL	L	DUPLICATE RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VM5	1	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VM5	1	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VP9	1.1	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VH6	1.18	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
c110	Cobalt	4/23/92	B08VH6	1.18	1.01	ug/mL	L	PRIMARY RESULT	TCD	Co	1.01E+03	
C110	Co	11/1/91	1	1.18	0.586	ug/ml	L	core 39 seg. 3	RAW	Co	5.86E+02	
c110	Cobalt	4/23/92	B08VH6	1.18	0.586	ug/mL	L	PRIMARY RESULT	TCD	Co	5.86E+02	
c110	Cobalt	4/23/92	B08VH6	1.18	0.586	ug/mL	L	PRIMARY RESULT	TCD	Co	5.86E+02	
C110	Co	11/1/91	2	1.18	0.566	ug/ml	L	core 39 seg. 3	RAW	Co	5.66E+02	
c110	Cobalt	4/23/92	B08VH6	1.18	0.566	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.66E+02	
c110	Cobalt	4/23/92	B08VH6	1.18	0.566	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.66E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Liquids [Sketch ES-VAL-CC15]
 ASA Value: 1.32E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t104	Cobalt	8/26/92	B08TQ7	1.1	0.545	ug/mL	L	PRIMARY RESULT	TCD	Co	5.45E+02	
C110	Co	11/1/91	1	1.1	0.51	ug/ml	L	core 38 seg. 4	RAW	Co	5.10E+02	
C110	Co	11/1/91	2	1.1	0.51	ug/ml	L	core 38 seg. 4	RAW	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	PRIMARY RESULT	TCD	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	PRIMARY RESULT	TCD	Co	5.10E+02	
c110	Cobalt	4/23/92	B08VP9	1.1	0.51	ug/mL	L	PRIMARY RESULT	TCD	Co	5.10E+02	
C110	Co	11/1/91	1	1	0.5	ug/ml	L	core 37 seg. 3	RAW	Co	5.00E+02	
C110	Co	11/1/91	2	1	0.5	ug/ml	L	core 37 seg. 3	RAW	Co	5.00E+02	
c110	Cobalt	4/23/92	B08VM5	1	0.5	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.00E+02	
c110	Cobalt	4/23/92	B08VM5	1	0.5	ug/mL	L	DUPLICATE RESULT	TCD	Co	5.00E+02	
c110	Cobalt	4/23/92	B08VM5	1	0.5	ug/mL	L	PRIMARY RESULT	TCD	Co	5.00E+02	
c110	Cobalt	4/23/92	B08VM5	1	0.5	ug/mL	L	PRIMARY RESULT	TCD	Co	5.00E+02	
Minimum Plot Limit: 1.00E+02 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C103	Co	5/8/87	F1XCXXXX	1.13	54200	ug/g	I	Composite	RAW	Co	6.12E+07	13
B110	Cobalt	4/1/90	CORE 2 SEGMENT 4	1.28	34397.233	ug/g	I	DUPLICATE	B110 Core Data	Co	4.40E+07	14
B110	Cobalt	4/1/90	CORE 2 SEGMENT 4	1.28	6146.2451	ug/g	I	PRIMARY	B110 Core Data	Co	7.87E+06	14
B110	Cobalt	4/1/90	Core Composite 9	1.32	4328.5413	ug/g	I	PRIMARY	B110 Core Data	Co	5.71E+06	14
B110	Cobalt	4/1/90	Core Composite 9	1.32	3355.8633	ug/g	I	DUPLICATE	B110 Core Data	Co	4.43E+06	14
B110	Cobalt	4/1/90	Core Composite 18	1.37	1436.4761	ug/g	I	PRIMARY	B110 Core Data	Co	1.97E+06	14
c112	Cobalt	3/1/92	B08DM7	1.6	1226.3	ug/g	S	PRIMARY RESULT	TCD	Co	1.96E+06	22
B110	Cobalt	4/1/90	CORE 4 SEGMENT 3	1.3	1428.5714	ug/g	I	PRIMARY	B110 Core Data	Co	1.86E+06	14
B110	Cobalt	4/1/90	Core Composite 18	1.37	1349.0999	ug/g	I	DUPLICATE	B110 Core Data	Co	1.85E+06	14
c112	Cobalt	3/1/92	B08DM7	1.6	1138.8	ug/g	S	DUPLICATE RESULT	TCD	Co	1.82E+06	22
B110	Cobalt	4/1/90	CORE 4 SEGMENT 3	1.3	1398.2837	ug/g	I	DUPLICATE	B110 Core Data	Co	1.82E+06	14
B110	Cobalt	4/1/90	CORE 4 SEGMENT 2	1.3	1325.6096	ug/g	I	PRIMARY	B110 Core Data	Co	1.72E+06	14
c112	Cobalt	3/1/92	B08DM7	1.6	1071.5	ug/g	S	DUPLICATE RESULT	TCD	Co	1.71E+06	22
B110	Cobalt	4/1/90	CORE 4 SEGMENT 4	1.3	1294.5872	ug/g	I		B110 Core Data	Co	1.68E+06	14
B110	Cobalt	4/1/90	Core Composite 1	1.36	1170.4587	ug/g	I	PRIMARY	B110 Core Data	Co	1.59E+06	14
B110	Cobalt	4/1/90	CORE 4 SEGMENT 2	1.3	1196.2818	ug/g	I	DUPLICATE	B110 Core Data	Co	1.56E+06	14
B110	Cobalt	4/1/90	Core Composite 4	1.36	1142.7945	ug/g	I	PRIMARY	B110 Core Data	Co	1.55E+06	14
B110	Cobalt	4/1/90	Core Composite 1	1.36	1119.3576	ug/g	I	DUPLICATE	B110 Core Data	Co	1.52E+06	14
B110	Cobalt	4/1/90	CORE 4 SEGMENT 5	1.3	1154.5314	ug/g	I		B110 Core Data	Co	1.50E+06	14
U110	Cobalt	12/1/89	Core 5 Segment 3	1.04	1420	ug/g	I	DUPLICATE	U110 Core Data	Co	1.48E+06	20
B110	Cobalt	4/1/90	Core Composite 1	1.36	1053.6562	ug/g	I	PRIMARY	B110 Core Data	Co	1.43E+06	14
B110	Cobalt	4/1/90	CORE 4 SEGMENT 4	1.3	970.31679	ug/g	I		B110 Core Data	Co	1.26E+06	14
B110	Cobalt	4/1/90	CORE 4 SEGMENT 5	1.3	935.97815	ug/g	I		B110 Core Data	Co	1.22E+06	14
B110	Cobalt	4/1/90	CORE 2 SEGMENT 5	1.28	912.25022	ug/g	I	DUPLICATE	B110 Core Data	Co	1.17E+06	14
B110	Cobalt	4/1/90	Core Composite 2	1.33	858.91903	ug/g	I	PRIMARY	B110 Core Data	Co	1.14E+06	14
B110	Cobalt	4/1/90	Core Composite 3	1.36	818.83066	ug/g	I	PRIMARY	B110 Core Data	Co	1.11E+06	14
B110	Cobalt	4/1/90	Core Composite 1	1.36	749.48291	ug/g	I	DUPLICATE	B110 Core Data	Co	1.02E+06	14
B110	Cobalt	4/1/90	Core Composite 10	1.34	750.66631	ug/g	I	DUPLICATE	B110 Core Data	Co	1.01E+06	14
B110	Cobalt	4/1/90	CORE 2 SEGMENT 5	1.28	781.92876	ug/g	I	PRIMARY	B110 Core Data	Co	1.00E+06	14
U110	Co	12/15/89	89-070/1/2		612	ugm/gm	G	Sludge/Composite	Braun	Co	9.79E+05	20
U110	Cobalt	12/1/89	Core Composite 12	1.42	612	ug/g	I	PRIMARY	U110 Core Data	Co	8.69E+05	20
B110	Cobalt	4/1/90	Core Composite 10	1.34	621.07245	ug/g	I	PRIMARY	B110 Core Data	Co	8.32E+05	14
U110	Cobalt	12/1/89	Core 12 Segment 4	1.48	493	ug/g	I	PRIMARY	U110 Core Data	Co	7.30E+05	20
U110	Cobalt	12/1/89	Core 12 Segment 2	1.77	391	ug/g	I	PRIMARY	U110 Core Data	Co	6.92E+05	20
B110	Cobalt	4/1/90	Core Composite 4	1.36	502.30314	ug/g	I	DUPLICATE	B110 Core Data	Co	6.83E+05	14
U110	Cobalt	12/1/89	Core 12 Segment 2	1.77	370	ug/g	I	DUPLICATE	U110 Core Data	Co	6.55E+05	20
B110	Cobalt	4/1/90	Core Composite 3	1.36	449.7458	ug/g	I	DUPLICATE	B110 Core Data	Co	6.12E+05	14
U110	Cobalt	12/1/89	Core Composite 13	1.3	451	ug/g	I	PRIMARY	U110 Core Data	Co	5.86E+05	20
U110	Cobalt	12/1/89	Core Composite 8		365	ug/g	I	DUPLICATE	U110 Core Data	Co	5.84E+05	20

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Cobalt	4/1/90	Core Composite 1	1.36	423.40917	ug/g	I	DUPLICATE	B110 Core Data	Co	5.76E+05	14
U110	Cobalt	12/1/89	Core 15 Segment 4	1.31	435	ug/g	I	DUPLICATE	U110 Core Data	Co	5.70E+05	20
ASA Value: 5.41E+05 ug/L												
c112	Cobalt	3/1/92	B08DN8	1.6	338.4	ug/g	S	DUPLICATE RESULT	TCD	Co	5.41E+05	*
U110	Cobalt	12/1/89	Core Composite 6	1.54	325	ug/g	I	DUPLICATE	U110 Core Data	Co	5.01E+05	
U110	Cobalt	12/1/89	Core Composite 12	1.42	346	ug/g	I	DUPLICATE	U110 Core Data	Co	4.91E+05	
c112	Cobalt	3/1/92	B08DN8	1.6	306.3	ug/g	S	PRIMARY RESULT	TCD	Co	4.90E+05	
U110	Cobalt	12/1/89	Core Composite 13	1.3	359	ug/g	I	DUPLICATE	U110 Core Data	Co	4.67E+05	
U110	Cobalt	12/1/89	Core Composite 8		285	ug/g	I	PRIMARY	U110 Core Data	Co	4.56E+05	
B110	Cobalt	4/1/90	Core Composite 2	1.33	335.58858	ug/g	I	DUPLICATE	B110 Core Data	Co	4.46E+05	
U110	Cobalt	12/1/89	Core 15 Segment 3	1.3	341	ug/g	I	DUPLICATE	U110 Core Data	Co	4.43E+05	
B110	Cobalt	4/1/90	Core Composite 1	1.36	323.64035	ug/g	I	PRIMARY	B110 Core Data	Co	4.40E+05	
U110	Cobalt	12/1/89	Core Composite 7	1.675	256	ug/g	I	PRIMARY	U110 Core Data	Co	4.29E+05	
U110	Cobalt	12/1/89	Core 13 Segment 3	1.14	367	ug/g	I	DUPLICATE	U110 Core Data	Co	4.18E+05	
U110	Cobalt	12/1/89	Core Composite 6	1.54	271	ug/g	I	PRIMARY	U110 Core Data	Co	4.17E+05	
U110	Cobalt	12/1/89	Core 13 Segment 3	1.14	362	ug/g	I	PRIMARY	U110 Core Data	Co	4.13E+05	
U110	Cobalt	12/1/89	Core Composite 5	1.04	394	ug/g	I	DUPLICATE	U110 Core Data	Co	4.10E+05	
U110	Cobalt	12/1/89	Core Composite 14	1.48	261	ug/g	I	DUPLICATE	U110 Core Data	Co	3.86E+05	
U110	Cobalt	12/1/89	Core Composite 14	1.48	256	ug/g	I	PRIMARY	U110 Core Data	Co	3.79E+05	
U110	Cobalt	12/1/89	Core Composite 7	1.675	217	ug/g	I	DUPLICATE	U110 Core Data	Co	3.63E+05	
U110	Cobalt	12/1/89	Core Composite 5	1.04	304	ug/g	I	PRIMARY	U110 Core Data	Co	3.16E+05	
U110	Cobalt	12/1/89	Core Composite 14	1.48	185	ug/g	I	DUPLICATE	U110 Core Data	Co	2.74E+05	
B110	Cobalt	4/1/90	Core Composite 2	1.33	150.19349	ug/g	I	PRIMARY	B110 Core Data	Co	2.00E+05	
B110	Cobalt	4/1/90	Core Composite 2	1.33	145.49995	ug/g	I	DUPLICATE	B110 Core Data	Co	1.94E+05	
U110	Cobalt	12/1/89	Core Composite 14	1.48	123	ug/g	I	PRIMARY	U110 Core Data	Co	1.82E+05	
c112	Cobalt	3/1/92	B08DY1	2	86.2	ug/g	S	PRIMARY RESULT	TCD	Co	1.72E+05	
U110	Cobalt	12/1/89	Core Composite 13	1.3	129	ug/g	I	PRIMARY	U110 Core Data	Co	1.68E+05	
c112	Cobalt	3/1/92	B08DY1	2	83.4	ug/g	S	DUPLICATE RESULT	TCD	Co	1.67E+05	
c112	Cobalt	3/1/92	B08DY1	2	81.9	ug/g	S	PRIMARY RESULT	TCD	Co	1.64E+05	
c112	Cobalt	3/1/92	B08DY1	2	81.7	ug/g	S	DUPLICATE RESULT	TCD	Co	1.63E+05	
c112	Cobalt	3/1/92	B08DY1	2	80.7	ug/g	S	DUPLICATE RESULT	TCD	Co	1.61E+05	
c112	Cobalt	3/1/92	B08DY1	2	77	ug/g	S	PRIMARY RESULT	TCD	Co	1.54E+05	
U110	Cobalt	12/1/89	Core 12 Segment 4	1.48	98	ug/g	I	DUPLICATE	U110 Core Data	Co	1.45E+05	
U110	Cobalt	12/1/89	Core 7 Segment 4	1.93	75	ug/g	I	DUPLICATE	U110 Core Data	Co	1.45E+05	
U110	Cobalt	12/1/89	Core 6 Segment 4	1.8	77	ug/g	I	DUPLICATE	U110 Core Data	Co	1.39E+05	
B110	Cobalt	4/1/90	Core Composite 10	1.34	102.69702	ug/g	I	DUPLICATE	B110 Core Data	Co	1.38E+05	
U110	Cobalt	12/1/89	Core 7 Segment 1	1.78	77	ug/g	I	PRIMARY	U110 Core Data	Co	1.37E+05	
B110	Cobalt	4/1/90	Core Composite 3	1.36	100.2151	ug/g	I	PRIMARY	B110 Core Data	Co	1.36E+05	
U110	Cobalt	12/1/89	Core Composite 7	1.675	81	ug/g	I	PRIMARY	U110 Core Data	Co	1.36E+05	

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Tank Waste Source Term Inventory Validation
W/C Accelerated Safety Analysis (ASA) Chemical Analyses
Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
ASA Value: 5.41E+05 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ID
U110	Cobalt	12/1/89	Core 7 Segment 3	1.53	88	ug/g	I	PRIMARY	U110 Core Data	Co	1.35E+05
B110	Cobalt	4/1/90	Core Composite 2	1.33	100.91125	ug/g	I	DUPLICATE	B110 Core Data	Co	1.34E+05
U110	Cobalt	12/1/89	Core 15 Segment 4	1.31	100	ug/g	I	PRIMARY	U110 Core Data	Co	1.31E+05
U110	Cobalt	12/1/89	Core Composite 7	1.675	77	ug/g	I	DUPLICATE	U110 Core Data	Co	1.29E+05
B110	Cobalt	4/1/90	Core Composite 10	1.34	95.361518	ug/g	I	PRIMARY	B110 Core Data	Co	1.28E+05
U110	Cobalt	12/1/89	Core 6 Segment 2	1.59	80	ug/g	I	DUPLICATE	U110 Core Data	Co	1.27E+05
U110	Cobalt	12/1/89	Core 7 Segment 3	1.53	83	ug/g	I	DUPLICATE	U110 Core Data	Co	1.27E+05
U110	Co	11/10/89	89-043		79	ugm/gm	G	Sludge	Braun	Co	1.26E+05
U110	Cobalt	12/1/89	Core 7 Segment 1	1.78	71	ug/g	I	DUPLICATE	U110 Core Data	Co	1.26E+05
U110	Cobalt	12/1/89	Core 6 Segment 2	1.59	79	ug/g	I	PRIMARY	U110 Core Data	Co	1.26E+05
U110	Cobalt	12/1/89	Core 14 Segment 1	1.5	82	ug/g	I	PRIMARY	U110 Core Data	Co	1.23E+05
U110	Cobalt	12/1/89	Core 14 Segment 1	1.5	82	ug/g	I	DUPLICATE	U110 Core Data	Co	1.23E+05
U110	Cobalt	12/1/89	Core 14 Segment 4	1.62	74	ug/g	I	DUPLICATE	U110 Core Data	Co	1.20E+05
U110	Cobalt	12/1/89	Core 7 Segment 4	1.93	62	ug/g	I	PRIMARY	U110 Core Data	Co	1.20E+05
Preliminary ASA Value: 1.20E+05 ug/L											
U110	Cobalt	12/1/89	Core Composite 6	1.54	77	ug/g	I	PRIMARY	U110 Core Data	Co	1.19E+05
U110	Cobalt	12/1/89	Core Composite 6	1.54	77	ug/g	I	DUPLICATE	U110 Core Data	Co	1.19E+05
BY104	Co	11/12/92			0.117	g/L	K	Saltcake	Wastren	Co	1.17E+05
U110	Cobalt	12/1/89	Core 7 Segment 2	1.46	79	ug/g	I	DUPLICATE	U110 Core Data	Co	1.15E+05
C103	Co	5/14/86	F2XC00XX	1.54	71.5	ugm/gm	G	Sludge/Composite	Braun	Co	1.10E+05
U110	Cobalt	12/1/89	Core Composite 12	1.42	77	ug/g	I	PRIMARY	U110 Core Data	Co	1.09E+05
U110	Cobalt	12/1/89	Core Composite 12	1.42	77	ug/g	I	DUPLICATE	U110 Core Data	Co	1.09E+05
B110	Cobalt	4/1/90	Core Composite 18	1.37	79.57734	ug/g	I	PRIMARY	B110 Core Data	Co	1.09E+05
U110	Cobalt	12/1/89	Core 6 Segment 4	1.8	60	ug/g	I	PRIMARY	U110 Core Data	Co	1.08E+05
BY104	Co	11/12/92	R-1773		67	ugm/gm	T	Crust	Braun	Co	1.07E+05
BY104	Co	10/26/92	riser 5		67	ug/g	S	fusion digestion	RAW	Co	1.07E+05
U110	Cobalt	12/1/89	Core 13 Segment 4	1.46	73	ug/g	I	DUPLICATE	U110 Core Data	Co	1.07E+05
U110	Cobalt	12/1/89	Core 13 Segment 4	1.46	70	ug/g	I	PRIMARY	U110 Core Data	Co	1.02E+05
U110	Cobalt	12/1/89	Core 7 Segment 2	1.46	70	ug/g	I	PRIMARY	U110 Core Data	Co	1.02E+05
U110	Cobalt	12/1/89	Core 14 Segment 4	1.62	63	ug/g	I	PRIMARY	U110 Core Data	Co	1.02E+05
U110	Cobalt	12/1/89	Core 15 Segment 2	1.27	80	ug/g	I	DUPLICATE	U110 Core Data	Co	1.02E+05
B110	Cobalt	4/1/90	Core Composite 4	1.36	74.577758	ug/g	I	PRIMARY	B110 Core Data	Co	1.01E+05
U110	Cobalt	12/1/89	Core Composite 13	1.3	77	ug/g	I	DUPLICATE	U110 Core Data	Co	1.00E+05
U110	Cobalt	12/1/89	Core 6 Segment 3	1.22	82	ug/g	I	DUPLICATE	U110 Core Data	Co	1.00E+05
B110	Cobalt	4/1/90	Core Composite 2	1.33	75.096746	ug/g	I	PRIMARY	B110 Core Data	Co	9.99E+04
U110	Cobalt	12/1/89	Core 15 Segment 2	1.27	77	ug/g	I	PRIMARY	U110 Core Data	Co	9.78E+04
c112	Cobalt	3/1/92	B08DN8	1.6	60.9	ug/g	S	DUPLICATE RESULT	TCD	Co	9.74E+04
U110	Cobalt	12/1/89	Core 6 Segment 3	1.22	79	ug/g	I	PRIMARY	U110 Core Data	Co	9.64E+04
U110	Cobalt	12/1/89	Core Composite 15	1.29	73	ug/g	I	PRIMARY	U110 Core Data	Co	9.42E+04

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analyses
Cobalt Single-Shell Tank Solids (Sketch ES-VAL-CC16)
ASA Value: 5.41E+05 ug/L

Tank Waste Characterization Sample Information									
Tank	Reported Chemical	Date	Sample #	Density	Value Reported	Unit	Code	Sample State	Source
U110	Cobalt	12/1/89	Core Composite 15	1.29	73	ug/g	I	DUPLICATE	U110 Core Data
U110	Cobalt	12/1/89	Core 15 Segment 3	1.3	71	ug/g	I	PRIMARY	U110 Core Data
B110	Cobalt	4/1/90	Core Composite 18	1.37	64.056574	ug/g	I	DUPLICATE	B110 Core Data
U110	Cobalt	12/1/89	Core Composite 5	1.04	71	ug/g	I	DUPLICATE	U110 Core Data
U110	Cobalt	12/1/89	Core 12 Segment 3	1	74	ug/g	I	DUPLICATE	U110 Core Data
B110	Cobalt	4/1/90	Core Composite 10	1.34	56.238844	ug/g	I	DUPLICATE	B110 Core Data
B110	Cobalt	4/1/90	Core Composite 9	1.32	52.241015	ug/g	I	DUPLICATE	B110 Core Data
B110	Cobalt	4/1/90	Core Composite 10	1.34	51.34851	ug/g	I	PRIMARY	B110 Core Data
U110	Cobalt	12/1/89	Core 14 Segment 2	1.39	48	ug/g	I	PRIMARY	U110 Core Data
C103	Co	5/8/87	F1XCXXXXX	1.13	54.2	ug/g	I	Composite	RAW
C103	Co	5/7/86	F1XCDOOXX	1.13	54.2	ugm/gm	G	Sludge/Composite	Braun
B110	Cobalt	4/1/90	Core Composite 18	1.37	44.181285	ug/g	I	DUPLICATE	B110 Core Data
U110	Cobalt	12/1/89	Core 14 Segment 2	1.39	42	ug/g	I	DUPLICATE	U110 Core Data
U110	Cobalt	12/1/89	Core 14 Segment 3	1.4	40	ug/g	I	PRIMARY	U110 Core Data
U110	Cobalt	12/1/89	Core 5 Segment 4	1.36	35	ug/g	I	PRIMARY	U110 Core Data
B110	Cobalt	4/1/90	Core Composite 4	1.36	39.482343	ug/g	I	PRIMARY	B110 Core Data
U110	Cobalt	12/1/89	Core 14 Segment 3	1.4	38	ug/g	I	DUPLICATE	U110 Core Data
U110	Cobalt	12/1/89	Core 5 Segment 4	1.3	33	ug/g	I	DUPLICATE	U110 Core Data
U110	Cobalt	12/1/89	Core Composite 13	1.3	40	ug/g	I	PRIMARY	U110 Core Data
U110	Cobalt	12/1/89	Core Composite 13	1.3	40	ug/g	I	DUPLICATE	U110 Core Data
A102	Co	3/8/86	92XCDOOXX	1.66	31.1	ugm/gm	G	Sludge/Composite	Braun
A102	Co	1/5/88	92xcdoxxx R-4	1.66	31.1	ug/g	I	Composite Composite	RAW
B110	Cobalt	4/1/90	Core Composite 4	1.36	37.288879	ug/g	I	DUPLICATE	B110 Core Data
B110	Cobalt	4/1/90	Core Composite 9	1.32	37.315011	ug/g	I	PRIMARY	B110 Core Data
B110	Cobalt	4/1/90	Core Composite 3	1.36	34.219789	ug/g	I	PRIMARY	B110 Core Data
B110	Cobalt	4/1/90	Core Composite 9	1.32	34.827343	ug/g	I	DUPLICATE	B110 Core Data
A102	Co	3/8/86	92XCDOOXX	1.66	24.1	ugm/gm	G	Sludge/Composite	Braun
B110	Cobalt	4/1/90	Core Composite 3	1.36	29.331248	ug/g	I	DUPLICATE	B110 Core Data
BY104	Co	1/11/2/92	R-1775	23	23	ugm/gm	T	Crust	Braun
BY104	Co	10/26/92	riser 10b		23	ug/g	S	acid digestion	RAW
B110	Cobalt	4/1/90	Core Composite 9	1.32	27.364341	ug/g	I	PRIMARY	B110 Core Data
BX104	Cobalt	2/14/86	71XCDOOXX	1.85	15.1	ugm/gm	G	Sludge/Composite	Braun
BX104	Co	1/5/88	71xcxxxxR-1	1.85	15.1	ug/g	I	Composite	RAW

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
A102	Co	3/6/86	91XCOOXX	1.52	17.3	ugm/gm	G	Sludge/Composite	Braun	Co	2.63E+04	
A102	Co	2/24/87	91xc00xx R-4	1.52	17.3	ug/g	I	Composite Composite	RAW	Co	2.63E+04	
A106	Cobalt	3/13/86	A2XCOOXX	1.54	16.2	ugm/gm	G	Sludge/Composite	Braun	Co	2.49E+04	
A106	Co	1/5/88	A2xcxxxx R-20	1.54	16.2	ug/g	I	Composite Composite	RAW	Co	2.49E+04	
U110	Cobalt	12/1/89	Core 5 Segment 3	1.04	22	ug/g	I	PRIMARY	U110 Core Data	Co	2.29E+04	
T104	Co	1/26/93	T104-C45-C2		13.4	ugm/gm	G	Sludge/Composite	Braun	Co	2.14E+04	
T111	Co	8/7/92	J-470		13.3	ugm/gm	G	Sludge/Composite	Braun	Co	2.13E+04	
BX107	Co	10/20/92	J927-AV		12.77735	ugm/gm	G	Sludge/Composite	Braun	Co	2.04E+04	
C104	Co	4/15/86	D1XCOOXX	1.21	16.2	ugm/gm	G	Sludge/Composite	Braun	Co	1.96E+04	
C104	Co	4/15/86			0.0196	g/L	G	Sludge	Wastren	Co	1.96E+04	
A106	Cobalt	3/13/86	A2XCOOXX	1.54	12.1	ugm/gm	G	Sludge/Composite	Braun	Co	1.86E+04	
A106	Co	3/13/86			0.0186	g/L	G	Sludge	Wastren	Co	1.86E+04	
T104	Co	1/26/93	T104-C45-C1		11	ugm/gm	G	Sludge/Composite	Braun	Co	1.76E+04	
C102	Co	12/1/86	RAT-C102-2		10.6	ugm/gm	I	Composite	Braun	Co	1.70E+04	
A106	Cobalt	3/11/86	A1XCOOXX	1.56	10.8	ugm/gm	G	Sludge/Composite	Braun	Co	1.68E+04	
A106	Co	1/5/88	A1xcxxxx R-17	1.56	10.8	ug/g	I	Composite Composite	RAW	Co	1.68E+04	
S104	Co	4/13/90			0.0164	g/L	G	Sludge	Wastren	Co	1.64E+04	
T111	Co	8/7/92	J-466		10.1	ugm/gm	G	Sludge/Composite	Braun	Co	1.62E+04	
C105	Co	4/11/86	C1XCOOXX	1.55	10.3	ugm/gm	G	Sludge/Composite	Braun	Co	1.60E+04	
C105	Co	5/8/87		1.55	10.3	ug/g	I	Composite	RAW	Co	1.60E+04	
C106	Co	7/22/88			9.7	mg/kg	G	Sludge	RAW	Co	1.55E+04	
s104	Cobalt	8/1/92	B08TJ4	1.6	9.44	mg/kg	S	PRIMARY RESULT	TCD	Co	1.51E+04	
s104	Cobalt	8/1/92	B08TJ4		9.44	mg/kg	S	PRIMARY RESULT	TCD	Co	1.51E+04	
s104	Cobalt	8/1/92	B08TJ4	1.6	9.39	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.50E+04	
s104	Cobalt	8/1/92	B08TJ4		9.39	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.50E+04	
s104	Cobalt	8/1/92	B08TJ5	1.6	9.31	mg/kg	S	PRIMARY RESULT	TCD	Co	1.49E+04	
s104	Cobalt	8/1/92	B08TJ5		9.31	mg/kg	S	PRIMARY RESULT	TCD	Co	1.49E+04	
s104	Cobalt	8/1/92	B08TJ5	1.6	9.28	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.48E+04	
s104	Cobalt	8/1/92	B08TJ5		9.28	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.48E+04	
BX104	Co	1/5/88	72xcxxxxR-8	1.76	8.41	ug/g	I	Composite	RAW	Co	1.48E+04	
b202	Cobalt	6/7/91	B08SP5	0.87	16.9	mg/kg	S	PRIMARY RESULT	TCD	Co	1.47E+04	
T111	Co	8/7/92	J-404	1.11	13.1	ugm/gm	G	Sludge	Braun	Co	1.45E+04	
t111	Cobalt	11/1/91	B08ST9	1.11	13.1	ug/g	S	PRIMARY RESULT	TCD	Co	1.45E+04	
C102	Co	7/10/86	E1XCOOXX	1.351	10.6	ugm/gm	G	Sludge/Composite	Braun	Co	1.43E+04	
BX104	Co	2/26/86			0.0141	g/L	G	Sludge	Wastren	Co	1.41E+04	
BX104	Cobalt	2/26/86	72XCOOXX	1.673	8.41	ugm/gm	G	Sludge/Composite	Braun	Co	1.41E+04	
s104	Cobalt	8/1/92	B08TL4	1.6	7.34	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.17E+04	
s104	Cobalt	8/1/92	B08TL4		7.34	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.17E+04	
b202	Cobalt	6/7/91	B08SP5	0.87	13.4	mg/kg	S	PRIMARY RESULT	TCD	Co	1.17E+04	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
b202	Cobalt	6/7/91	B08SP5	0.87	12.7	mg/kg	S	PRIMARY RESULT	TCD	Co	1.10E+04	
b202	Cobalt	6/7/91	B08SP5	0.87	12.311	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.07E+04	
A106	Cobalt	3/11/86	A1XC00XX	1.56	6.76	ugm/gm	G	Sludge/Composite	Braun	Co	1.05E+04	
b202	Cobalt	6/7/91	B08SP5	0.87	11.3	mg/kg	S	PRIMARY RESULT	TCD	Co	9.83E+03	
b202	Cobalt	6/7/91	B08SP5	0.87	11.2887	mg/kg	S	PRIMARY RESULT	TCD	Co	9.82E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	6	mg/kg	S	DUPLICATE RESULT	TCD	Co	9.60E+03	
s104	Cobalt	8/1/92	B08TL3		6	mg/kg	S	DUPLICATE RESULT	TCD	Co	9.60E+03	
s104	Cobalt	8/1/92	B08TL4	1.6	5.94	mg/kg	S	PRIMARY RESULT	TCD	Co	9.50E+03	
s104	Cobalt	8/1/92	B08TL4		5.94	mg/kg	S	PRIMARY RESULT	TCD	Co	9.50E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	5.92	mg/kg	S	PRIMARY RESULT	TCD	Co	9.47E+03	
s104	Cobalt	8/1/92	B08TL3		5.92	mg/kg	S	PRIMARY RESULT	TCD	Co	9.47E+03	
s104	Cobalt	8/1/92	B08TF6	1.6	5	mg/kg	S	DUPLICATE RESULT	TCD	Co	8.00E+03	
s104	Cobalt	8/1/92	B08TF6		5	mg/kg	S	DUPLICATE RESULT	TCD	Co	8.00E+03	
s104	Cobalt	8/1/92	B08TF6	1.6	5	mg/kg	S	PRIMARY RESULT	TCD	Co	8.00E+03	
s104	Cobalt	8/1/92	B08TF6		5	mg/kg	S	PRIMARY RESULT	TCD	Co	8.00E+03	
BX107	Co	10/20/92	J926-AV		4.995	ugm/gm	G	Sludge/Composite	Braun	Co	7.99E+03	
BX107	Co	10/20/92	J924-AV		4.99	ugm/gm	G	Sludge/Composite	Braun	Co	7.98E+03	
BX107	Co	10/20/92	J925-AV		4.9801	ugm/gm	G	Sludge/Composite	Braun	Co	7.97E+03	
s104	Cobalt	8/1/92	B08TF7	1.6	4.96	mg/kg	S	DUPLICATE RESULT	TCD	Co	7.94E+03	
s104	Cobalt	8/1/92	B08TF7		4.96	mg/kg	S	DUPLICATE RESULT	TCD	Co	7.94E+03	
s104	Cobalt	8/1/92	B08TF7	1.6	4.93	mg/kg	S	PRIMARY RESULT	TCD	Co	7.89E+03	
s104	Cobalt	8/1/92	B08TF7		4.93	mg/kg	S	PRIMARY RESULT	TCD	Co	7.89E+03	
C106	Co	5/19/86			4.81	ug/g	I	Composite	RAW	Co	7.70E+03	
BY104	Co	10/26/92	riser 5		4.5	ug/g	S	water digestion	RAW	Co	7.20E+03	
C106	Co	4/14/87		1.43	4.81	uG/G	S		RAW	Co	6.88E+03	
C106	Co	4/17/87	G1xcxxxxR-1	1.43	4.81	ug/g	I	Composite	RAW	Co	6.88E+03	
C106	Co	5/19/86	G1XC00XX	1.43	4.81	ugm/gm	G	Sludge/Composite	Braun	Co	6.88E+03	
B110	Cobalt	4/1/90	Core Composite 3	1.36	4.888541	ug/g	I	DUPLICATE	B110 Core Data	Co	6.65E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	6.5295	mg/kg	S	DUPLICATE RESULT	TCD	Co	6.40E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	5.9	mg/kg	S	PRIMARY RESULT	TCD	Co	5.78E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	5.8695	mg/kg	S	PRIMARY RESULT	TCD	Co	5.75E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	5.2	mg/kg	S	PRIMARY RESULT	TCD	Co	5.30E+03	
t102	Cobalt	3/1/93	BOB732	1.32	4	ug/g	S	DUPLICATE RESULT	TCD	Co	5.28E+03	
s104	Cobalt	8/1/92	B08TF7	1.6	3.15	mg/kg	S	PRIMARY RESULT	TCD	Co	5.04E+03	
s104	Cobalt	8/1/92	B08TF7		3.15	mg/kg	S	PRIMARY RESULT	TCD	Co	5.04E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	4.9	mg/kg	S	PRIMARY RESULT	TCD	Co	5.00E+03	
s104	Cobalt	8/1/92	B08S50	1.6	3.06	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.90E+03	
s104	Cobalt	8/1/92	B08S50		3.06	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.90E+03	
s104	Cobalt	8/1/92	B08TJ4	1.6	3.03	mg/kg	S	PRIMARY RESULT	TCD	Co	4.85E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Cobalt	8/1/92	B08TJ4		3.03	mg/kg	S	PRIMARY RESULT	TCD	Co	4.85E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	4.7369	mg/kg	S	PRIMARY RESULT	TCD	Co	4.83E+03	
s104	Cobalt	8/1/92	B08S48	1.6	2.96	mg/kg	S	PRIMARY RESULT	TCD	Co	4.74E+03	
s104	Cobalt	8/1/92	B08S48		2.96	mg/kg	S	PRIMARY RESULT	TCD	Co	4.74E+03	
s104	Cobalt	8/1/92	B08S48	1.6	2.95	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.72E+03	
s104	Cobalt	8/1/92	B08S48		2.95	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.72E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	4.6	mg/kg	S	PRIMARY RESULT	TCD	Co	4.51E+03	
s104	Cobalt	8/1/92	B08TJ5	1.6	2.81	mg/kg	S	PRIMARY RESULT	TCD	Co	4.50E+03	
s104	Cobalt	8/1/92	B08TJ5		2.81	mg/kg	S	PRIMARY RESULT	TCD	Co	4.50E+03	
t111	Cobalt	11/1/91	B08SQ9	1.13	3.91	ug/g	S	PRIMARY RESULT	TCD	Co	4.42E+03	
T111	Co	8/7/92	J-414	1.13	3.91	ugm/gm	G	Sludge	Braun	Co	4.42E+03	
s104	Cobalt	8/1/92	B08TL4	1.6	2.7	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.32E+03	
s104	Cobalt	8/1/92	B08TL4		2.7	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.32E+03	
s104	Cobalt	8/1/92	B08S50	1.6	2.66	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.26E+03	
s104	Cobalt	8/1/92	B08S50		2.66	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.26E+03	
t111	Cobalt	11/1/91	B08ST5	0.88	4.83	ug/g	S	PRIMARY RESULT	TCD	Co	4.25E+03	
T111	Co	8/7/92	J-398	0.88	4.8	ugm/gm	G	Sludge	Braun	Co	4.22E+03	
s104	Cobalt	8/1/92	B08TF6	1.6	2.62	mg/kg	S	PRIMARY RESULT	TCD	Co	4.19E+03	
s104	Cobalt	8/1/92	B08TF6		2.62	mg/kg	S	PRIMARY RESULT	TCD	Co	4.19E+03	
t111	Cobalt	11/1/91	B08ST5	0.88	4.74	ug/g	S	DUPLICATE RESULT	TCD	Co	4.17E+03	
s104	Cobalt	8/1/92	B08S48	1.6	2.6	mg/kg	S	PRIMARY RESULT	TCD	Co	4.16E+03	
s104	Cobalt	8/1/92	B08S48		2.6	mg/kg	S	PRIMARY RESULT	TCD	Co	4.16E+03	
s104	Cobalt	8/1/92	B08TJ5	1.6	2.57	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.11E+03	
s104	Cobalt	8/1/92	B08TJ5		2.57	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.11E+03	
t111	Cobalt	11/1/91	B08ST5	0.88	4.63	ug/g	S	PRIMARY RESULT	TCD	Co	4.07E+03	
s104	Cobalt	8/1/92	B08TF7	1.6	2.53	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.05E+03	
s104	Cobalt	8/1/92	B08TF7		2.53	mg/kg	S	DUPLICATE RESULT	TCD	Co	4.05E+03	
s104	Cobalt	8/1/92	B08TF6	1.6	2.49	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.98E+03	
s104	Cobalt	8/1/92	B08TF6		2.49	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.98E+03	
t111	Cobalt	11/1/91	B08ST5	0.88	4.51	ug/g	S	DUPLICATE RESULT	TCD	Co	3.97E+03	
s104	Cobalt	8/1/92	B08S50	1.6	2.46	mg/kg	S	PRIMARY RESULT	TCD	Co	3.94E+03	
s104	Cobalt	8/1/92	B08S50		2.46	mg/kg	S	PRIMARY RESULT	TCD	Co	3.94E+03	
t111	Cobalt	11/1/91	B08ST9	1.11	3.54	ug/g	S	DUPLICATE RESULT	TCD	Co	3.93E+03	
t111	Cobalt	11/1/91	B08ST9	1.11	3.5	ug/g	S	PRIMARY RESULT	TCD	Co	3.89E+03	
t111	Cobalt	11/1/91	B08SQ9	1.13	3.43	ug/g	S	DUPLICATE RESULT	TCD	Co	3.88E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	3.9	mg/kg	S	PRIMARY RESULT	TCD	Co	3.82E+03	
s104	Cobalt	8/1/92	B08S48	1.6	2.36	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.78E+03	
s104	Cobalt	8/1/92	B08S48		2.36	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.78E+03	
t111	Cobalt	11/1/91	B08SV7	1.09	3.42	ug/g	S	DUPLICATE RESULT	TCD	Co	3.73E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX107	Co	10/20/92	J925-AV		2.32	ugm/gm	G	Sludge/Composite	Braun	Co	3.71E+03	
t111	Cobalt	11/1/91	B08ST9	1.11	3.34	ug/g	S	DUPLICATE RESULT	TCD	Co	3.71E+03	
s104	Cobalt	8/1/92	B08TJ4	1.6	2.3	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.68E+03	
s104	Cobalt	8/1/92	B08TJ4		2.3	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.68E+03	
b202	Cobalt	6/7/91	B08SP6	0.98	3.7	mg/kg	S	PRIMARY RESULT	TCD	Co	3.63E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	3.5467	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.62E+03	
t111	Cobalt	11/1/91	B08ST7	0.93	3.77	ug/g	S	DUPLICATE RESULT	TCD	Co	3.51E+03	
s104	Cobalt	8/1/92	B08TL4	1.6	2.17	mg/kg	S	PRIMARY RESULT	TCD	Co	3.47E+03	
s104	Cobalt	8/1/92	B08TL4		2.17	mg/kg	S	PRIMARY RESULT	TCD	Co	3.47E+03	
T111	Co	8/7/92	J-408	1.09	3.1	ugm/gm	G	Sludge	Braun	Co	3.38E+03	
t111	Cobalt	11/1/91	B08ST7	0.93	3.62	ug/g	S	PRIMARY RESULT	TCD	Co	3.37E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	3.3	mg/kg	S	PRIMARY RESULT	TCD	Co	3.37E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	2.1	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.36E+03	
s104	Cobalt	8/1/92	B08TL3		2.1	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.36E+03	
BX107	Co	10/20/92	J924-AV		2.08	ugm/gm	G	Sludge/Composite	Braun	Co	3.33E+03	
t111	Cobalt	11/1/91	B08SV7	1.09	3.05	ug/g	S	PRIMARY RESULT	TCD	Co	3.32E+03	
T111	Co	8/7/92	J-402	0.93	3.5	ugm/gm	G	Sludge	Braun	Co	3.26E+03	
t111	Cobalt	11/1/91	B08ST7	0.93	3.49	ug/g	S	PRIMARY RESULT	TCD	Co	3.25E+03	
s104	Cobalt	8/1/92	B08S46	1.6	1.97	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.15E+03	
s104	Cobalt	8/1/92	B08S46		1.97	mg/kg	S	DUPLICATE RESULT	TCD	Co	3.15E+03	
t111	Cobalt	11/1/91	B08ST7	0.93	3.36	ug/g	S	DUPLICATE RESULT	TCD	Co	3.12E+03	
s104	Cobalt	8/1/92	B08S50	1.6	1.89	mg/kg	S	PRIMARY RESULT	TCD	Co	3.02E+03	
s104	Cobalt	8/1/92	B08S50		1.89	mg/kg	S	PRIMARY RESULT	TCD	Co	3.02E+03	
s104	Cobalt	8/1/92	B08S46	1.6	1.85	mg/kg	S	PRIMARY RESULT	TCD	Co	2.96E+03	
s104	Cobalt	8/1/92	B08S46		1.85	mg/kg	S	PRIMARY RESULT	TCD	Co	2.96E+03	
A103	Co	4/3/86			0.00293	g/L	K	Saltcake	Wastren	Co	2.93E+03	
A103	Cobalt	4/3/86	B2XCOOXX	1.35	2.17	ugm/gm	G	Sludge/Composite	Braun	Co	2.93E+03	
A103	Co	3/3/87	B2xcxxxx R-12	1.35	2.17	ug/g	I	Composite Composite	RAW	Co	2.93E+03	
s104	Cobalt	8/1/92	B08S46	1.6	1.82	mg/kg	S	PRIMARY RESULT	TCD	Co	2.91E+03	
s104	Cobalt	8/1/92	B08S46		1.82	mg/kg	S	PRIMARY RESULT	TCD	Co	2.91E+03	
s104	Cobalt	8/1/92	B08S46	1.6	1.81	mg/kg	S	DUPLICATE RESULT	TCD	Co	2.90E+03	
s104	Cobalt	8/1/92	B08S46		1.81	mg/kg	S	DUPLICATE RESULT	TCD	Co	2.90E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	1.8	mg/kg	S	PRIMARY RESULT	TCD	Co	2.88E+03	
s104	Cobalt	8/1/92	B08TL3		1.8	mg/kg	S	PRIMARY RESULT	TCD	Co	2.88E+03	
t111	Cobalt	11/1/91	B08SX5	1.06	2.69	ug/g	S	DUPLICATE RESULT	TCD	Co	2.85E+03	
t111	Cobalt	11/1/91	B08SX5	1.06	2.61	ug/g	S	PRIMARY RESULT	TCD	Co	2.77E+03	
T111	Co	8/7/92	J-410	1.06	2.6	ugm/gm	G	Sludge	Braun	Co	2.76E+03	
b202	Cobalt	6/7/91	B08SM2	1.02	2.7	mg/kg	S	PRIMARY RESULT	TCD	Co	2.75E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	2.0272	mg/kg	S	PRIMARY RESULT	TCD	Co	2.74E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
 ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX107	Co	10/20/92	J926-AV		1.69	ugm/gm	G	Sludge/Composite	Braun	Co	2.70E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	2	mg/kg	S	PRIMARY RESULT	TCD	Co	2.70E+03	
t111	Cobalt	11/1/91	B08SV7	1.09	2.47	ug/g	S	DUPLICATE RESULT	TCD	Co	2.69E+03	
t111	Cobalt	11/1/91	B08SV7	1.09	2.47	ug/g	S	PRIMARY RESULT	TCD	Co	2.69E+03	
t111	Cobalt	11/1/91	B08SX5	1.06	2.43	ug/g	S	PRIMARY RESULT	TCD	Co	2.58E+03	
t111	Cobalt	11/1/91	B08SX5	1.06	2.42	ug/g	S	DUPLICATE RESULT	TCD	Co	2.57E+03	
b202	Cobalt	6/7/91	B08SP8	0.98	2.6	mg/kg	S	PRIMARY RESULT	TCD	Co	2.55E+03	
bx107	Cobalt	6/1/92	B08SF0	1.326	1.88	ug/g	S	PRIMARY RESULT	TCD	Co	2.49E+03	
bx107	Cobalt	6/1/92	B08SF0	1.326	1.68	ug/g	S	PRIMARY RESULT	TCD	Co	2.23E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	1.36	mg/kg	S	PRIMARY RESULT	TCD	Co	2.18E+03	
s104	Cobalt	8/1/92	B08TL3		1.36	mg/kg	S	PRIMARY RESULT	TCD	Co	2.18E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	1.6	mg/kg	S	PRIMARY RESULT	TCD	Co	2.16E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	1.5	mg/kg	S	PRIMARY RESULT	TCD	Co	2.03E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	1.5	mg/kg	S	PRIMARY RESULT	TCD	Co	2.03E+03	
b202	Cobalt	6/7/91	B0BC06	0.99	2.0272	mg/kg	S	PRIMARY RESULT	TCD	Co	2.01E+03	
BX107	Co	10/20/92	J925-AV		1.22	ugm/gm	G	Sludge/Composite	Braun	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL3	1.6	1.22	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL4	1.6	1.22	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL3		1.22	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL4		1.22	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL4	1.6	1.22	mg/kg	S	PRIMARY RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TL4		1.22	mg/kg	S	PRIMARY RESULT	TCD	Co	1.95E+03	
s104	Cobalt	8/1/92	B08TJ5	1.6	1.21	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.94E+03	
s104	Cobalt	8/1/92	B08TJ5		1.21	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.94E+03	
s104	Cobalt	8/1/92	B08TJ5	1.6	1.21	mg/kg	S	PRIMARY RESULT	TCD	Co	1.94E+03	
s104	Cobalt	8/1/92	B08TJ5		1.21	mg/kg	S	PRIMARY RESULT	TCD	Co	1.94E+03	
s104	Cobalt	8/1/92	B08TJ4	1.6	1.2	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.92E+03	
s104	Cobalt	8/1/92	B08TJ4		1.2	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.92E+03	
s104	Cobalt	8/1/92	B08TJ4	1.6	1.2	mg/kg	S	PRIMARY RESULT	TCD	Co	1.92E+03	
s104	Cobalt	8/1/92	B08TJ4		1.2	mg/kg	S	PRIMARY RESULT	TCD	Co	1.92E+03	
t104	Cobalt	8/26/92	B08S09	1.13	1.66	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.88E+03	
t104	Cobalt	8/26/92	B08S09	1.13	1.65	mg/kg	S	PRIMARY RESULT	TCD	Co	1.86E+03	
b202	Cobalt	6/7/91	B08SM4	1.35	1.3734	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.85E+03	
BX105	Cobalt	3/3/86	81XCOOXX	1.58	1.14	ugm/gm	G	Sludge/Composite	Braun	Co	1.80E+03	
BX105	Co	1/5/88	81xcxxxxR-4	1.58	1.14	ug/g	I	Composite	RAW	Co	1.80E+03	
b202	Cobalt	6/7/91	B08SK0	0.93	1.9	mg/kg	S	PRIMARY RESULT	TCD	Co	1.77E+03	
b202	Cobalt	6/7/91	B08SK0	0.93	1.9	mg/kg	S	PRIMARY RESULT	TCD	Co	1.77E+03	
b202	Cobalt	6/7/91	B08SP8	0.98	1.8	mg/kg	S	PRIMARY RESULT	TCD	Co	1.76E+03	
b202	Cobalt	6/7/91	B08SP8	0.98	1.7941	mg/kg	S	PRIMARY RESULT	TCD	Co	1.76E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cobalt Single-Shell Tank Solids [Sketch ES-VAL-CC16]
ASA Value: 5.41E+05 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
b202	Cobalt	6/7/91	B08SK0	0.93	1.8901	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.76E+03			
BX107	Co	10/20/92	J927-AV		1.0932	ugm/gm	G	Sludge/Composite	Braun	Co	1.75E+03			
A103	Cobalt	3/26/86	B1XCOOXX	1.34	1.3	ugm/gm	G	Sludge/Composite	Braun	Co	1.74E+03			
A103	Co	2/24/87	B1xcooxx R-17	1.34	1.3	ug/g	I	Composite Composite	RAW	Co	1.74E+03			
bx107	Cobalt	6/1/92	B08SD6	0.996	1.713	ug/g	S	DUPLICATE RESULT	TCD	Co	1.71E+03			
b202	Cobalt	6/7/91	B0BC06	0.99	1.7	mg/kg	S	PRIMARY RESULT	TCD	Co	1.68E+03			
b202	Cobalt	6/7/91	B0BC06	0.99	1.7	mg/kg	S	PRIMARY RESULT	TCD	Co	1.68E+03			
b202	Cobalt	6/7/91	B08SP8	0.98	1.7	mg/kg	S	PRIMARY RESULT	TCD	Co	1.67E+03			
s104	Cobalt	8/1/92	B08TF7	1.6	1.02	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.63E+03			
s104	Cobalt	8/1/92	B08TF7		1.02	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.63E+03			
s104	Cobalt	8/1/92	B08TF6	1.6	1.02	mg/kg	S	PRIMARY RESULT	TCD	Co	1.63E+03			
s104	Cobalt	8/1/92	B08TF7	1.6	1.02	mg/kg	S	PRIMARY RESULT	TCD	Co	1.63E+03			
s104	Cobalt	8/1/92	B08TF6		1.02	mg/kg	S	PRIMARY RESULT	TCD	Co	1.63E+03			
s104	Cobalt	8/1/92	B08TF7		1.02	mg/kg	S	PRIMARY RESULT	TCD	Co	1.63E+03			
BX107	Co	10/20/92	J924-AV		1.019	ugm/gm	G	Sludge/Composite	Braun	Co	1.63E+03			
BX107	Co	10/20/92	J926-AV		1.019	ugm/gm	G	Sludge/Composite	Braun	Co	1.63E+03			
b202	Cobalt	6/7/91	B08SK0	0.93	1.7413	mg/kg	S	PRIMARY RESULT	TCD	Co	1.62E+03			
s104	Cobalt	8/1/92	B08TF6	1.6	1.01	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.62E+03			
s104	Cobalt	8/1/92	B08TF6		1.01	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.62E+03			
BY104	Co	10/26/92	riser 10b		1	ug/g	S	water digestion	RAW	Co	1.60E+03			
b202	Cobalt	6/7/91	B0BC06	0.99	1.6	mg/kg	S	PRIMARY RESULT	TCD	Co	1.58E+03			
t104	Cobalt	8/26/92	B08S09	1.13	1.4	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.58E+03			
b202	Cobalt	6/7/91	B08SK0	0.93	1.7	mg/kg	S	PRIMARY RESULT	TCD	Co	1.58E+03			
BX107	Co	10/20/92	J927-AV		0.951	ugm/gm	G	Sludge/Composite	Braun	Co	1.52E+03			
bx107	Cobalt	6/1/92	B08SD6	0.996	1.5269	ug/g	S	DUPLICATE RESULT	TCD	Co	1.52E+03			
b202	Cobalt	6/7/91	B0BC06	0.99	1.3734	mg/kg	S	DUPLICATE RESULT	TCD	Co	1.36E+03			
bx107	Cobalt	6/1/92	B08SD6	0.996	1.3546	ug/g	S	PRIMARY RESULT	TCD	Co	1.35E+03			
t104	Cobalt	8/26/92	B08S09	1.13	1.18	mg/kg	S	PRIMARY RESULT	TCD	Co	1.33E+03			
C102	Co	2/1/91	2		0.8	mg/kg	S	water leach	RAW	Co	1.28E+03			
b202	Cobalt	6/7/91	B08SP8	0.98	1.3	mg/kg	S	PRIMARY RESULT	TCD	Co	1.27E+03			
b202	Cobalt	6/7/91	B08SK0	0.93	1.3	mg/kg	S	PRIMARY RESULT	TCD	Co	1.21E+03			
b202	Cobalt	6/7/91	B0BC06	0.99	1.2	mg/kg	S	PRIMARY RESULT	TCD	Co	1.19E+03			
Minimum Plot Limit: 1.00E+03 ug/L														
b202	Cobalt	6/7/91	B08SP8	0.98	0.9804	mg/kg	S	DUPLICATE RESULT	TCD	Co	9.61E+02			
C102	Co	2/1/91	1		0.1	mg/kg	S	water leach	RAW	Co	1.60E+02			
C102	Co	2/1/91	2		0.037	ug/mL	S	water leach	RAW	Co	3.70E+01			
C102	Co	2/1/91	1		0.005	ug/mL	S	water leach	RAW	Co	5.00E+00			
BX105	Cobalt	3/3/86	81XCOOXX	1.58	0	ugm/gm	G	Sludge/Composite	Braun	Co	0.00E+00			
BX105	Cobalt	3/4/86	82XCOOXX	1.79	0	ugm/gm	G	Sludge/Composite	Braun	Co	0.00E+00			

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Liquids [Sketch ES-VAL-CC17]
 ASA Value: N/A

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After additional review the WHC panel concluded that Cr + 3 probably does not exist in the liquid phase. No final ASA value was specified.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
Preliminary ASA Value: 1.58E+07 ug/L												
TY104	Cr(3+)	9/18/80		1.57	0.237	wt %	U	unknown	RAW	Cr + 3	3.72E+06	
TY104	Cr(3+)	9/18/80		1.41	0.0716	wt %	U	unknown	RAW	Cr + 3	1.01E+06	
TY106	Cr(3+)	12/20/79		1.58	0.006	wt %	L		RAW	Cr + 3	9.48E+04	
TY104	Cr(3+)	9/18/80		1.57	0.0044	wt %	U	unknown	RAW	Cr + 3	6.91E+04	
Minimum Plot Limit: 1.00E+04 ug/L												

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX102	Cr				1.34E+04	g-moles	S		TRAC	Cr + 3	2.04E+08	4
AX104	Cr				9.45E+04	g-moles	S		TRAC	Cr + 3	2.01E+08	4
SX113	Cr + + +				3.67E+00	moles/L	S		HTCE Inv.	Cr + 3	1.91E+08	4
S110	Cr				6.96E+05	g-moles	S		TRAC	Cr + 3	1.38E+08	4
T203	Cr				1.73E+03	g-moles	S		TRAC	Cr + 3	1.19E+08	4
B204	Cr				3.73E+03	g-moles	S		TRAC	Cr + 3	1.02E+08	4
SX110	Cr + + +				1.94E+00	moles/L	S		HTCE Inv.	Cr + 3	1.01E+08	4
S108	Cr				7.30E+04	g-moles	S		TRAC	Cr + 3	1.00E+08	4
SX112	Cr				9.13E+05	g-moles	S		TRAC	Cr + 3	8.52E+07	4
SX111	Cr + + +				1.39E+00	moles/L	S		HTCE Inv.	Cr + 3	7.24E+07	4
ASA Value: 6.91E+07 ug/L												
BY112	Cr	4/4/72	RAT-BY112-3	1.44	4.8	wt. %	S	Solids	Braun	Cr	6.91E+07	*
SX107	Cr + + +				1.29E+00	moles/L	S		HTCE Inv.	Cr + 3	6.69E+07	
SX112	Cr + + +				1.25E+00	moles/L	S		HTCE Inv.	Cr + 3	6.52E+07	
SX108	Cr + + +				1.21E+00	moles/L	S		HTCE Inv.	Cr + 3	6.28E+07	
AX101	Cr				1.70E+04	g-moles	S		TRAC	Cr + 3	5.83E+07	
SX101	Cr				1.31E+06	g-moles	S		TRAC	Cr + 3	5.74E+07	
S101	Cr				8.10E+05	g-moles	S		TRAC	Cr + 3	5.61E+07	
SX107	Cr				9.64E+05	g-moles	S		TRAC	Cr + 3	5.56E+07	
U110	Cr				4.27E+05	g-moles	S		TRAC	Cr + 3	4.72E+07	
S104	Cr				8.51E+05	g-moles	S		TRAC	Cr + 3	4.62E+07	
SX114	Cr + + +				8.53E-01	moles/L	S		HTCE Inv.	Cr + 3	4.43E+07	
S107	Cr				7.30E+05	g-moles	S		TRAC	Cr + 3	4.12E+07	
SX111	Cr				1.13E+06	g-moles	S		TRAC	Cr + 3	3.83E+07	
SX107	Cr	1/29/77	1345	1.33	2.8	wt. %	A	Salts	Braun	Cr	3.72E+07	
SX108	Cr				1.20E+06	g-moles	S		TRAC	Cr + 3	3.71E+07	
SX114	Cr				1.48E+06	g-moles	S		TRAC	Cr + 3	3.69E+07	
SX109	Cr				9.57E+05	g-moles	S		TRAC	Cr + 3	3.37E+07	
SX104	Cr				9.59E+05	g-moles	S		TRAC	Cr + 3	3.14E+07	
BY104	Cr	11/12/92			2.94E+01	g/L	K	Saltcake	Wastren	Cr + 3	2.94E+07	
BY104	Cr	11/12/92	R-1773		16800	ugm/gm	T	Crust	Braun	Cr	2.69E+07	
BY104	Cr	10/26/92	riser 5		1.68E+04	ug/g	S	fusion digestion	RAW	Cr + 3	2.69E+07	
SX115	Cr				3.77E+05	g-moles	S		TRAC	Cr + 3	2.46E+07	
S111	Cr				6.96E+04	g-moles	S		TRAC	Cr + 3	2.39E+07	
SX109	Cr + + +				4.56E-01	moles/L	S		HTCE Inv.	Cr + 3	2.37E+07	
BX105	Chromium	3/3/86	81XCOOXX	1.58	14700	ugm/gm	G	Sludge/Composite	Braun	Cr	2.32E+07	
BX105	Cr	1/5/88	81xcxxxxR-4	1.58	1.47E+04	ug/g	I	Composite	RAW	Cr + 3	2.32E+07	
T107	Cr				9.84E+03	g-moles	S		TRAC	Cr + 3	2.25E+07	
C110	Cr				9.83E+03	g-moles	S		TRAC	Cr + 3	2.25E+07	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY104	Cr	10/26/92	riser 5		1.40E+04	ug/g	S	acid digestion	RAW	Cr +3	2.24E+07	
T104	Cr				2.14E+04	g-moles	S		TRAC	Cr +3	2.10E+07	
S104	Cr + + +				3.74E-01	moles/L	S		HTCE Inv.	Cr +3	1.95E+07	
BX107	Cr				9.84E+03	g-moles	S		TRAC	Cr +3	1.93E+07	
BY104	Cr	10/26/92	riser 5		1.19E+04	ug/g	S	water digestion	RAW	Cr +3	1.90E+07	
SX101	Cr + + +				3.31E-01	moles/L	S		HTCE Inv.	Cr +3	1.72E+07	
SX106	Cr	2/28/77	RAT-SX106-2	1.45	0.3	moles/l	G	Sludge	Braun	Cr	1.56E+07	
SX106	Cr	2/28/77	RAT-SX106-2	1.58	0.3	moles/l	G	Sludge	Braun	Cr	1.56E+07	
SX106	Cr	2/28/77	RAT-SX106-2	1.6	0.3	moles/l	G	Sludge	Braun	Cr	1.56E+07	
U103	Cr	4/16/76	RAT-U103-1	1.228	0.3	moles/l	S	Supernate/Solids	Braun	Cr	1.56E+07	
U103	Cr	4/16/76	RAT-U103-1	1.305	0.3	moles/l	S	Supernate/Solids	Braun	Cr	1.56E+07	
U103	Cr	4/16/76		1.228	3.00E-01	M	G	Sludge	RAW	Cr +3	1.56E+07	
SX106	Cr	2/28/77		1.58	3.00E-01	mol/l	G	Sludge	RAW	Cr +3	1.56E+07	
SX115	Cr + + +				2.78E-01	moles/L	S		HTCE Inv.	Cr +3	1.45E+07	
TY101	Cr	9/11/85			1.38E+01	g/L	G	Sludge	Wastren	Cr +3	1.38E+07	
TY101	Cr	9/11/85	51XC0000	1.64	8400	ugm/gm	G	Sludge/Composite	Braun	Cr	1.38E+07	
TY101	Cr	9/1/85		1.64	8.40E+03	ug/g	I	core composite	RAW	Cr +3	1.38E+07	
SX110	Cr				6.80E+05	g-moles	S		TRAC	Cr +3	1.34E+07	
S107	Cr + + +				2.51E-01	moles/L	S		HTCE Inv.	Cr +3	1.31E+07	
SX105	Cr				8.14E+04	g-moles	S		TRAC	Cr +3	1.24E+07	
TY104	Cr				3.22E+02	g-moles	S		TRAC	Cr +3	1.10E+07	
S101	Cr + + +				2.03E-01	moles/L	S		HTCE Inv.	Cr +3	1.05E+07	
A102	Cr	3/8/86	92XC00XX	1.66	6320	ugm/gm	G	Sludge/Composite	Braun	Cr	1.05E+07	
A102	Cr	1/5/88	92xc00xx R-4	1.66	6.32E+03	ug/g	I	Composite Composite	RAW	Cr +3	1.05E+07	
B101	Cr				7.26E+03	g-moles	S		TRAC	Cr +3	1.05E+07	
C106	Cr	1/24/77	RAT-C106-3	2.44	0.2	moles/l	G	Sludge	Braun	Cr	1.04E+07	
C106	Cr	1/24/77		2.44	2.00E-01	M/L	G	Sludge	RAW	Cr +3	1.04E+07	
SX113	Cr				1.90E+05	g-moles	S		TRAC	Cr +3	9.28E+06	
TX109	Cr				3.21E+04	g-moles	S		TRAC	Cr +3	8.99E+06	
SX101	Cr	12/4/78	4523	1.76	0.5	wt.%	A	Salts	Braun	Cr	8.80E+06	
TY103	Cr				1.33E+04	g-moles	S		TRAC	Cr +3	8.69E+06	
A106	Chromium	3/13/86	A2XC00XX	1.54	5580	ugm/gm	G	Sludge/Composite	Braun	Cr	8.59E+06	
A106	Cr	1/5/88	A2xcxxxx R-20	1.54	5.58E+03	ug/g	I	Composite Composite	RAW	Cr +3	8.59E+06	
A106	Cr	3/13/86			8.59E+00	g/L	G	Sludge	Wastren	Cr +3	8.59E+06	
A102	Cr	3/6/86	91XC00XX	1.52	5270	ugm/gm	G	Sludge/Composite	Braun	Cr	8.01E+06	
A102	Cr	2/24/87	91xc00xx R-4	1.52	5.27E+03	ug/g	I	Composite Composite	RAW	Cr +3	8.01E+06	
BX104	Cr	1/5/88	72xcxxxxR-8	1.76	4.48E+03	ug/g	I	Composite	RAW	Cr +3	7.88E+06	
S105	Cr				8.41E+04	g-moles	S		TRAC	Cr +3	7.69E+06	
SX101	Cr	12/4/78	4523	1.52	0.5	wt.%	A	Salts	Braun	Cr	7.60E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S111	Cr	9/18/80			7.53E+00	g/L	G	Sludge	Wastren	Cr + 3	7.53E+06	
BX104	Cr	2/26/86			7.50E+00	g/L	G	Sludge	Wastren	Cr + 3	7.50E+06	
BX104	Chromium	2/26/86	72XCOOXX	1.673	4480	ugm/gm	G	Sludge/Composite	Braun	Cr	7.50E+06	
A106	Chromium	3/11/86	A1XCOOXX	1.56	4550	ugm/gm	G	Sludge/Composite	Braun	Cr	7.10E+06	
A106	Cr	1/5/88	A1xcxxxx R-17	1.56	4.55E+03	ug/g	I	Composite Composite	RAW	Cr + 3	7.10E+06	
S111	Cr	12/27/76	RAT-S111-4	1.41	0.5	wt. %	A	Salts	Braun	Cr	7.05E+06	
S110	Cr + + +				1.33E-01	moles/L	S		HTCE Inv.	Cr + 3	6.91E+06	
S111	Cr	9/18/80	RAT-S111-5		0.43	wt. %	S	Solids	Braun	Cr	6.88E+06	
U110	Chromium	12/1/89	Core 15 Segment 4	1.31	5.24E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	6.86E+06	
C106	Cr	7/1/77	5		4.26E+03	mg/kg	S		RAW	Cr + 3	6.82E+06	
BY104	Cr	11/12/92	R-1775		4240	ugm/gm	T	Crust	Braun	Cr	6.78E+06	
BY104	Cr	10/26/92	riser 10b		4.24E+03	ug/g	S	fusion digestion	RAW	Cr + 3	6.78E+06	
SX104	Cr + + +				1.26E-01	moles/L	S		HTCE Inv.	Cr + 3	6.57E+06	
BY104	Cr	10/26/92	riser 10b		3.90E+03	ug/g	S	acid digestion	RAW	Cr + 3	6.24E+06	
S102	Cr				8.10E+04	g-moles	S		TRAC	Cr + 3	6.01E+06	
B203	Cr	1/7/83	RAT-B203-1		0.37	wt. %	G	Sludge	Braun	Cr	5.92E+06	
B110	Chromium	4/1/90	Core Composite 4	1.36	4.22E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr + 3	5.74E+06	
BX104	Chromium	2/14/86	71XCOOXX	1.85	3090	ugm/gm	G	Sludge/Composite	Braun	Cr	5.72E+06	
BX104	Cr	1/5/88	71xcxxxxR-1	1.85	3.09E+03	ug/g	I	Composite	RAW	Cr + 3	5.72E+06	
b202	Chromium	6/7/91	B08SP8	0.98	5.75E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	5.64E+06	
A106	Cr	10/5/77	JS-31	1.51	0.1	moles/l	G	Sludge	Braun	Cr	5.20E+06	
SX106	Cr	2/28/77	RAT-SX106-2	1.45	0.1	moles/l	S	Supernate/Solids	Braun	Cr	5.20E+06	
SX106	Cr	2/28/77	RAT-SX106-2	1.58	0.1	moles/l	S	Supernate/Solids	Braun	Cr	5.20E+06	
SX106	Cr	2/28/77	RAT-SX106-2	1.6	0.1	moles/l	S	Supernate/Solids	Braun	Cr	5.20E+06	
U105	Cr	3/14/77	RAT-U105-2	1.72	0.1	moles/l	G	Sludge	Braun	Cr	5.20E+06	
U105	Cr	3/14/77		1.72	1.00E-01	mol/l	G	Sludge	RAW	Cr + 3	5.20E+06	
SX106	Cr	2/28/77		1.6	1.00E-01	mol/l	S	Solid	RAW	Cr + 3	5.20E+06	
SX105	Cr + + +				9.77E-02	moles/L	S		HTCE Inv.	Cr + 3	5.08E+06	
BY110	Cr				1.81E+03	g-moles	S		TRAC	Cr + 3	4.97E+06	
A106	Cr	10/5/77	JS-30	1.51	0.095	moles/l	G	Sludge	Braun	Cr	4.94E+06	
A103	Cr				2.83E+03	g-moles	S		TRAC	Cr + 3	4.86E+06	
C107	Cr	9/26/77	T-510-23		0.092	moles/l	G	Sludge	Braun	Cr	4.78E+06	
C107	Cr	10/4/77	510 Middle		9.20E-02	M	S		RAW	Cr + 3	4.78E+06	
TX114	Cr				1.38E+03	g-moles	S		TRAC	Cr + 3	4.73E+06	
s104	Chromium	8/1/92	B08S50	1.6	2.92E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.67E+06	
s104	Chromium	8/1/92	B08S50		2.92E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.67E+06	
BX105	Cr	3/4/86			4.53E+00	g/L	G	Sludge	Wastren	Cr + 3	4.53E+06	
BX105	Chromium	3/4/86	82XCOOXX	1.79	2530	ugm/gm	G	Sludge/Composite	Braun	Cr	4.53E+06	
BX105	Cr	1/5/88	82xcxxxxR-8	1.79	2.53E+03	ug/g	I	Composite	RAW	Cr + 3	4.53E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
BX110	Cr	2/14/79	1010-C	1.44	0.31	wt. %	G	Sludge	Braun	Cr	4.46E+06	
S104	Cr	4/13/90			4.45E+00	g/L	G	Sludge	Wastren	Cr + 3	4.45E+06	
b201	Chromium	8/1/91	B08F21	1.3	3.40E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.42E+06	
b202	Chromium	6/7/91	B08SM4	1.35	3.25E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.39E+06	
b202	Chromium	6/7/91	B08SM4	1.35	3.21E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.33E+06	
b201	Chromium	8/1/91	B08F21	1.3	3.33E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.33E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.70E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.32E+06	
s104	Chromium	8/1/92	B08TF6		2.70E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.32E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.68E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.29E+06	
s104	Chromium	8/1/92	B08TF7		2.68E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.29E+06	
b201	Chromium	8/1/91	B08F21	1.3	3.28E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.27E+06	
b202	Chromium	6/7/91	B08SM2	1.02	4.17E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.26E+06	
T108	Cr				9.84E+02	g-moles	S		TRAC	Cr + 3	4.22E+06	
U112	Cr + + +				8.09E-02	moles/L	S		HTCE Inv.	Cr + 3	4.21E+06	
U103	Cr	12/4/78	3064	1.4	0.3	wt. %	S	Solids	Braun	Cr	4.20E+06	
U103	Cr	12/4/78			4.20E+00	g/L	G	Sludge	Wastren	Cr + 3	4.20E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.62E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.19E+06	
s104	Chromium	8/1/92	B08TF7		2.62E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.19E+06	
b202	Chromium	6/7/91	B08SM4	1.35	3.10E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.19E+06	
b202	Chromium	6/7/91	B08SM4	1.35	3.10E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.18E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.61E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.18E+06	
s104	Chromium	8/1/92	B08TJ5		2.61E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.18E+06	
SX104	Cr	2/14/77	RAT-SX104-2	1.39	0.3	wt. %	A	Salts	Braun	Cr	4.17E+06	
b202	Chromium	6/7/91	B08SP8	0.98	4.24E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.16E+06	
SX103	Cr + + +				7.99E-02	moles/L	S		HTCE Inv.	Cr + 3	4.15E+06	
B107	Cr				9.84E+03	g-moles	S		TRAC	Cr + 3	4.09E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.55E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.08E+06	
s104	Chromium	8/1/92	B08TF6		2.55E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.08E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.55E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.08E+06	
s104	Chromium	8/1/92	B08TF6		2.55E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.08E+06	
b202	Chromium	6/7/91	B08SM2	1.02	4.00E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.08E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.54E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.06E+06	
s104	Chromium	8/1/92	B08TJ5		2.54E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.06E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.53E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.05E+06	
s104	Chromium	8/1/92	B08TJ4		2.53E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	4.05E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.53E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.05E+06	
s104	Chromium	8/1/92	B08TF6		2.53E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.05E+06	
b202	Chromium	6/7/91	B08SM4	1.35	2.98E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	4.02E+06	
S111	Cr + + +				7.73E-02	moles/L	S		HTCE Inv.	Cr + 3	4.02E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Chromium	8/1/92	B08S48	1.6	2.51E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	4.02E+06	
s104	Chromium	8/1/92	B08S48		2.51E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	4.02E+06	
SX103	Cr	10/10/77	1104	1.5	0.077	moles/l	S	Solids	Braun	Cr	4.00E+06	
SX103	Cr	10/10/77	1104	2	0.077	moles/l	S	Solids	Braun	Cr	4.00E+06	
SX103	Cr	10/10/77	1104		7.70E-02	M	A	Salt	RAW	Cr +3	4.00E+06	
S104	Cr	6/24/93	F-2171		2500	ugm/gm	G	Sludge	Braun	Cr	4.00E+06	
SX103	Cr	10/10/77			4.00E+00	g/L	G	Sludge	Wastren	Cr +3	4.00E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.50E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	4.00E+06	
s104	Chromium	8/1/92	B08TF7		2.50E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	4.00E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.49E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.98E+06	
s104	Chromium	8/1/92	B08TF6		2.49E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.98E+06	
s104	Chromium	8/1/92	B08TF6	1.6	2.47E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.95E+06	
s104	Chromium	8/1/92	B08TF6		2.47E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.95E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.46E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.94E+06	
s104	Chromium	8/1/92	B08TF7		2.46E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.94E+06	
s104	Chromium	8/1/92	B08S48	1.6	2.45E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.92E+06	
s104	Chromium	8/1/92	B08S48		2.45E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.92E+06	
s104	Chromium	8/1/92	B08TL4	1.6	2.45E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.92E+06	
s104	Chromium	8/1/92	B08TL4		2.45E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.92E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.44E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.90E+06	
s104	Chromium	8/1/92	B08TJ4		2.44E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.90E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.42E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.87E+06	
s104	Chromium	8/1/92	B08TF7		2.42E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.87E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.40E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.84E+06	
s104	Chromium	8/1/92	B08TJ4		2.40E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.84E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.39E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.82E+06	
s104	Chromium	8/1/92	B08TJ5		2.39E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.82E+06	
s104	Chromium	8/1/92	B08TF7	1.6	2.37E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.79E+06	
s104	Chromium	8/1/92	B08TF7		2.37E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.79E+06	
S104	Cr	6/24/93	F-2175		2350	ugm/gm	G	Sludge	Braun	Cr	3.76E+06	
s104	Chromium	8/1/92	B08S50	1.6	2.35E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.76E+06	
s104	Chromium	8/1/92	B08S50		2.35E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.76E+06	
s104	Chromium	8/1/92	B08S48	1.6	2.34E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.74E+06	
s104	Chromium	8/1/92	B08S48		2.34E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.74E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 2	1.3	2.88E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	3.74E+06	
s104	Chromium	8/1/92	B08TL4	1.6	2.33E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.73E+06	
s104	Chromium	8/1/92	B08S50	1.6	2.33E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.73E+06	
s104	Chromium	8/1/92	B08S50		2.33E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.73E+06	
s104	Chromium	8/1/92	B08TL4		2.33E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.73E+06	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TY104	Cr	9/18/80	RAT-TY104-2	1.57	0.237	wt. %	G	Sludge	Braun	Cr	3.72E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.30E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TJ5		2.30E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.30E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.30E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TJ4		2.30E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TJ5		2.30E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.68E+06	
BY104	Cr	10/26/92	riser 10b		2.30E+03	ug/g	S	water digestion	RAW	Cr +3	3.68E+06	
s104	Chromium	8/1/92	B08TL4	1.6	2.29E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.66E+06	
s104	Chromium	8/1/92	B08TL4		2.29E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.66E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.29E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.66E+06	
s104	Chromium	8/1/92	B08TJ4		2.29E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.66E+06	
s104	Chromium	8/1/92	B08TJ5	1.6	2.28E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.65E+06	
s104	Chromium	8/1/92	B08TJ5		2.28E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.65E+06	
s104	Chromium	8/1/92	B08TL3	1.6	2.27E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.63E+06	
s104	Chromium	8/1/92	B08TL3		2.27E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.63E+06	
b202	Chromium	6/7/91	B08SM4	1.35	2.69E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.63E+06	
s104	Chromium	8/1/92	B08S48	1.6	2.25E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.60E+06	
s104	Chromium	8/1/92	B08S48		2.25E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.60E+06	
C107	Cr				9.29E+03	g-moles	S		TRAC	Cr +3	3.54E+06	
s104	Chromium	8/1/92	B08TL3	1.6	2.20E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.52E+06	
s104	Chromium	8/1/92	B08TL3		2.20E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.52E+06	
s104	Chromium	8/1/92	B08TL4	1.6	2.20E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.52E+06	
s104	Chromium	8/1/92	B08TL4		2.20E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.52E+06	
S104	Cr	6/24/93	F-2177		2190	ugm/gm	G	Sludge	Braun	Cr	3.50E+06	
s104	Chromium	8/1/92	B08TJ4	1.6	2.19E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.50E+06	
s104	Chromium	8/1/92	B08TJ4		2.19E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.50E+06	
s104	Chromium	8/1/92	B08TL3	1.6	2.17E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.47E+06	
s104	Chromium	8/1/92	B08TL3		2.17E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.47E+06	
b201	Chromium	8/1/91	B08F21	1.3	2.67E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.47E+06	
s104	Chromium	8/1/92	B08S50	1.6	2.14E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.42E+06	
s104	Chromium	8/1/92	B08S50		2.14E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.42E+06	
TY104	Cr	8/6/85	241S0000	1.77	1900	ugm/gm	G	Sludge/Composite	Braun	Cr	3.36E+06	
TY104	Cr	8/6/85	241SXXXX	1.77	1.90E+03	ug/g	I	core composite	RAW	Cr +3	3.36E+06	
s104	Chromium	8/1/92	B08TL3	1.6	2.10E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.36E+06	
s104	Chromium	8/1/92	B08TL3		2.10E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.36E+06	
s104	Chromium	8/1/92	B08S46	1.6	2.07E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.31E+06	
s104	Chromium	8/1/92	B08S46		2.07E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.31E+06	
TY103	Cr	2/1/80	RAT-TY103-2	1.5	0.22	wt. %	G	Sludge	Braun	Cr	3.30E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Chromium	8/1/92	B08S46	1.6	2.06E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.30E+06	
s104	Chromium	8/1/92	B08S46		2.06E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.30E+06	
s104	Chromium	8/1/92	B08S46	1.6	2.06E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.30E+06	
s104	Chromium	8/1/92	B08S46		2.06E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.30E+06	
U111	Cr				4.27E+04	g-moles	S		TRAC	Cr +3	3.27E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 2	1.3	2.50E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	3.25E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 2	1.3	2.50E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	3.24E+06	
U103	Cr	8/15/77	8793		0.061	moles/l	A	Salts	Braun	Cr	3.17E+06	
U103	Cr	8/15/77			6.10E-02	M	A	Salt	RAW	Cr +3	3.17E+06	
b201	Chromium	8/1/91	B08RP3	1.2	2.63E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.15E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 2	1.24	2.53E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	3.14E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 5	1.36	2.30E+03	ug/g	I		B110 Core Data	Cr +3	3.13E+06	
s104	Chromium	8/1/92	B08S46	1.6	1.95E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.12E+06	
s104	Chromium	8/1/92	B08S46		1.95E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.12E+06	
b201	Chromium	8/1/91	B08RP3	1.2	2.59E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.10E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 4	1.3	2.38E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	3.09E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 2	1.24	2.49E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	3.08E+06	
AX104	Cr	9/15/77			3.07E+00	g/L	G	Sludge	Wastren	Cr +3	3.07E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 5	1.3	2.36E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	3.07E+06	
AX104	Cr	9/15/77	JS-25		0.059	moles/l	G	Sludge	Braun	Cr	3.07E+06	
U105	Cr	10/6/77	968		0.059	moles/l	S	Solids	Braun	Cr	3.07E+06	
U105	Cr	10/6/77	968		5.90E-02	M	S	Solid	RAW	Cr +3	3.07E+06	
AX104	Cr	9/15/77	148JS#25 AL#2385		5.90E-02	M	S		RAW	Cr +3	3.07E+06	
b202	Chromium	6/7/91	B08C06	0.99	3.10E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.07E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 2	1.24	2.47E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	3.07E+06	
C106	Cr	4/1/90			3.06E+00	g/L	G	Sludge	Wastren	Cr +3	3.06E+06	
b201	Chromium	8/1/91	B08RP3	1.2	2.53E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.03E+06	
b202	Chromium	6/7/91	B08SP6	0.98	3.09E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	3.03E+06	
b202	Chromium	6/7/91	B08SP8	0.98	3.09E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	3.03E+06	
T111	Cr	8/7/92	J-466		1890	ugm/gm	G	Sludge/Composite	Braun	Cr	3.02E+06	
B110	Chromium	4/1/90	CORE 18 SEGMENT 3	1.31	2.30E+03	ug/g	I		B110 Core Data	Cr +3	3.02E+06	
C104	Cr	8/23/77	9172-A		0.058	moles/l	G	Sludge	Braun	Cr	3.02E+06	
C107	Cr	9/26/77	T-510-32		0.058	moles/l	G	Sludge	Braun	Cr	3.02E+06	
C107	Cr	9/26/77	510 Top		5.80E-02	M	S		RAW	Cr +3	3.02E+06	
C104	Cr	8/23/77	9172		5.80E-02	M	G	Sludge	RAW	Cr +3	3.02E+06	
b201	Chromium	8/1/91	B08F17	1.2	2.51E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.01E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 2	1.24	2.42E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	3.00E+06	
b202	Chromium	6/7/91	B08SP8	0.98	3.05E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.99E+06	
b202	Chromium	6/7/91	B08SP8	0.98	3.05E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.99E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Chromium	4/1/90	CORE 2 SEGMENT 1	1.24	2.39E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.97E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 5	1.3	2.28E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.96E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 2	1.3	2.26E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.94E+06	
b202	Chromium	6/7/91	BOBCO6	0.99	2.95E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.92E+06	
b201	Chromium	8/1/91	B08RP3	1.2	2.43E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.91E+06	
b202	Chromium	6/7/91	B08SP8	0.98	2.96E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	2.90E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 1	1.24	2.33E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.89E+06	
BX108	Cr				9.84E+02	g-moles	S		TRAC	Cr +3	2.87E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 4	1.3	2.21E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.87E+06	
T111	Cr	8/7/92	J-470		1790	ugm/gm	G	Sludge/Composite	Braun	Cr	2.86E+06	
b202	Chromium	6/7/91	BOBCO6	0.99	2.89E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.86E+06	
TX110	Cr				2.91E+03	g-moles	S		TRAC	Cr +3	2.85E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 2	1.3	2.19E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.85E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 3	1.3	2.19E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.85E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 3	1.3	2.17E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.83E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 2	1.3	2.16E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.81E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 3	1.3	2.16E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.81E+06	
B110	Chromium	4/1/90	Core Composite 2	1.33	2.11E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.80E+06	
C106	Cr	4/1/90	1		1.75E+03	mg/kg	S		RAW	Cr +3	2.80E+06	
C106	Cr	2/1/91			1.75E+03	mg/kg	S	KOH Fusion	RAW	Cr +3	2.80E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 5	1.3	2.15E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.80E+06	
t111	Chromium	11/1/91	B08SV7	1.09	2.55E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.78E+06	
B110	Chromium	4/1/90	Core Composite 3	1.36	2.04E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.78E+06	
B110	Chromium	4/1/90	Core Composite 3	1.36	2.04E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.78E+06	
t111	Chromium	11/1/91	B08SV7	1.09	2.52E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.75E+06	
t111	Chromium	11/1/91	B08SV7	1.09	2.52E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.75E+06	
b202	Chromium	6/7/91	B08SP6	0.98	2.80E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.74E+06	
T111	Cr	8/7/92	J-408	1.09	2516.4	ugm/gm	G	Sludge	Braun	Cr	2.74E+06	
b202	Chromium	6/7/91	B08SP6	0.98	2.80E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.74E+06	
B110	Chromium	4/1/90	Core Composite 1	1.36	2.01E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.73E+06	
S106	Cr				9.34E+03	g-moles	S		TRAC	Cr +3	2.73E+06	
B110	Chromium	4/1/90	Core Composite 1	1.36	2.00E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.72E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 3	1.3	2.09E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.71E+06	
b202	Chromium	6/7/91	BOBCO6	0.99	2.74E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.71E+06	
B110	Chromium	4/1/90	Core Composite 1	1.36	1.99E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.71E+06	
B110	Chromium	4/1/90	Core Composite 3	1.36	1.99E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.71E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 3	1.3	2.07E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.70E+06	
b201	Chromium	8/1/91	B08F17	1.2	2.24E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.68E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 3	1.3	2.06E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.68E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t111	Chromium	11/1/91	B08SV7	1.09	2.45E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	2.67E+06	
b201	Chromium	8/1/91	B08F17	1.2	2.22E+03	ug/g	S	PRIMARY RESULT	TCD	Cr+3	2.66E+06	
b202	Chromium	6/7/91	B0BC06	0.99	2.69E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr+3	2.66E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 3	1.29	2.06E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.66E+06	
SX102	Cr + + +				5.11E-02	moles/L	S		HTCE Inv.	Cr+3	2.66E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 3	1.29	2.05E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.64E+06	
B110	Chromium	4/1/90	Core Composite 1	1.36	1.94E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.64E+06	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.92E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.63E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 3	1.3	2.02E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.63E+06	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.95E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.62E+06	
B110	Chromium	4/1/90	Core Composite 4	1.36	1.91E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.60E+06	
C105	Cr	2/1/77	RAT-C105-3	1.47	0.05	moles/l	G	Sludge	Braun	Cr	2.60E+06	
C105	Cr	4/1/77		1.47	5.00E-02	M	G	Sludge	RAW	Cr+3	2.60E+06	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.89E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.59E+06	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.93E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.59E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 3	1.3	1.99E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.59E+06	
B110	Chromium	4/1/90	Core Composite 2	1.33	1.93E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.57E+06	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.91E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.57E+06	
BX112	Cr	6/11/79	RAT-BX112-1	1.22	0.21	wt. %	G	Sludge	Braun	Cr	2.56E+06	
b201	Chromium	8/1/91	B08F17	1.2	2.13E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	2.56E+06	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.87E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.56E+06	
B110	Chromium	4/1/90	Core Composite 2	1.33	1.92E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.56E+06	
B110	Chromium	4/1/90	Core Composite 4	1.36	1.87E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.55E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 3	1.3	1.95E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.54E+06	
B110	Chromium	4/1/90	Core Composite 4	1.36	1.86E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.52E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 3	1.3	1.93E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.51E+06	
B110	Chromium	4/1/90	Core Composite 3	1.36	1.84E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.51E+06	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.82E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.50E+06	
C106	Cr	7/22/88			1.56E+03	mg/kg	G	Sludge	RAW	Cr+3	2.50E+06	
C106	Cr	8/1/88	2		1.56E+03	mg/kg	S		RAW	Cr+3	2.50E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 3	1.29	1.93E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.49E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 5	1.36	1.83E+03	ug/g	I		B110 Core Data	Cr+3	2.49E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 2	1.3	1.90E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.48E+06	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.87E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.47E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 5	1.3	1.90E+03	ug/g	I	PRIMARY	B110 Core Data	Cr+3	2.47E+06	
B110	Chromium	4/1/90	Core Composite 2	1.33	1.85E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr+3	2.46E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 5	1.36	1.81E+03	ug/g	I		B110 Core Data	Cr+3	2.46E+06	
TY104	Cr	8/14/85	251S0000	1.66	1480	ugm/gm	G	Sludge/Composite	Braun	Cr	2.46E+06	
TY104	Cr	8/6/85	251SXXXX	1.66	1.48E+03	ug/g	I	core composite	RAW	Cr+3	2.46E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C105	Cr	4/1/90			2.45E+00	g/L	G	Sludge	Wastren	Cr +3	2.45E+06	
TY101	Cr				1.14E+04	g-moles	S		TRAC	Cr +3	2.44E+06	
U110	Cr	11/30/89	89-075		1526	ugm/gm	G	Sludge	Braun	Cr	2.44E+06	
B110	Chromium	4/1/90	CORE 18 SEGMENT 3	1.31	1.86E+03	ug/g	I		B110 Core Data	Cr +3	2.44E+06	
b202	Chromium	6/7/91	BOBC06	0.99	2.46E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.44E+06	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.84E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.43E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 3	1.29	1.87E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.42E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 3	1.17	2.06E+03	ug/g	I		B110 Core Data	Cr +3	2.41E+06	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.79E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.40E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 4	1.3	1.84E+03	ug/g	I		B110 Core Data	Cr +3	2.40E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 4	1.3	1.84E+03	ug/g	I		B110 Core Data	Cr +3	2.39E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 3	1.17	2.03E+03	ug/g	I		B110 Core Data	Cr +3	2.38E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 3	1.3	1.83E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.38E+06	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.79E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.36E+06	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.79E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.36E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 3	1.3	1.81E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.36E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 1	1.23	1.90E+03	ug/g	I		B110 Core Data	Cr +3	2.34E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 1	1.23	1.90E+03	ug/g	I		B110 Core Data	Cr +3	2.33E+06	
t111	Chromium	11/1/91	BO8ST9	1.11	2.10E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.33E+06	
A103	Chromium	4/3/86	B2XCOOXX	1.35	1720	ugm/gm	G	Sludge/Composite	Braun	Cr	2.32E+06	
A103	Cr	4/3/86			2.32E+00	g/L	K	Saltcake	Wastren	Cr +3	2.32E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 5	1.3	1.78E+03	ug/g	I		B110 Core Data	Cr +3	2.32E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 5	1.3	1.78E+03	ug/g	I		B110 Core Data	Cr +3	2.31E+06	
U110	Chromium	12/1/89	Core 12 Segment 2	1.77	1.31E+03	ug/g	I	PRIMARY	U110 Core Data	Cr +3	2.31E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 5	1.3	1.77E+03	ug/g	I		B110 Core Data	Cr +3	2.29E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 5	1.3	1.76E+03	ug/g	I		B110 Core Data	Cr +3	2.29E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 5	1.36	1.68E+03	ug/g	I		B110 Core Data	Cr +3	2.29E+06	
b202	Chromium	6/7/91	BO8SK0	0.93	2.44E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	2.27E+06	
T111	Cr	8/7/92	J-404	1.11	2030.7	ugm/gm	G	Sludge	Braun	Cr	2.25E+06	
t111	Chromium	11/1/91	BO8ST9	1.11	2.03E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.25E+06	
t111	Chromium	11/1/91	BO8SQ9	1.13	1.99E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.25E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 4	1.3	1.73E+03	ug/g	I		B110 Core Data	Cr +3	2.25E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 2	1.3	1.72E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.24E+06	
C105	Cr	2/1/91			1.40E+03	mg/kg	S	KOH Fusion	RAW	Cr +3	2.24E+06	
t111	Chromium	11/1/91	BO8ST9	1.11	2.01E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.23E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 4	1.28	1.74E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.23E+06	
T111	Cr	8/7/92	J-414	1.13	1970	ugm/gm	G	Sludge	Braun	Cr	2.23E+06	
t111	Chromium	11/1/91	BO8SQ9	1.13	1.97E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.23E+06	
B110	Chromium	4/1/90	CORE 18 SEGMENT 5	1.21	1.84E+03	ug/g	I		B110 Core Data	Cr +3	2.22E+06	

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 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY112	Cr	4/4/72	RAT-BY112-1	1.48	0.15	wt. %	S	Solids	Braun	Cr	2.22E+06	
BY112	Cr	4/4/72			2.22E+00	g/L	G	Sludge	Wastren...	Cr + 3	2.22E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 4	1.28	1.73E+03	ug/g	I	PRIMARY	B110 Core Data	Cr + 3	2.21E+06	
U110	Chromium	12/1/89	Core 12 Segment 2	1.77	1.25E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	2.20E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 3	1.17	1.88E+03	ug/g	I		B110 Core Data	Cr + 3	2.20E+06	
B110	Chromium	4/1/90	CORE 18 SEGMENT 5	1.21	1.81E+03	ug/g	I		B110 Core Data	Cr + 3	2.19E+06	
B110	Chromium	4/1/90	CORE 4 SEGMENT 4	1.3	1.68E+03	ug/g	I		B110 Core Data	Cr + 3	2.19E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 1	1.23	1.77E+03	ug/g	I		B110 Core Data	Cr + 3	2.18E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 5	1.28	1.70E+03	ug/g	I	PRIMARY	B110 Core Data	Cr + 3	2.18E+06	
B110	Chromium	4/1/90	CORE 10 SEGMENT 3	1.17	1.86E+03	ug/g	I		B110 Core Data	Cr + 3	2.18E+06	
t111	Chromium	11/1/91	B08SX5	1.06	2.05E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	2.17E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 5	1.28	1.70E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr + 3	2.17E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 1	1.23	1.76E+03	ug/g	I		B110 Core Data	Cr + 3	2.17E+06	
b202	Chromium	6/7/91	B08SK0	0.93	2.33E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	2.17E+06	
t111	Chromium	11/1/91	B08ST9	1.11	1.95E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	2.16E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 5	1.24	1.74E+03	ug/g	I		B110 Core Data	Cr + 3	2.16E+06	
C106	Cr	9/1/80	4		1.35E+03	mg/kg	S		RAW	Cr + 3	2.16E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 5	1.24	1.74E+03	ug/g	I		B110 Core Data	Cr + 3	2.16E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 5	1.3	1.65E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr + 3	2.15E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 4	1.3	1.65E+03	ug/g	I	PRIMARY	B110 Core Data	Cr + 3	2.15E+06	
t111	Chromium	11/1/91	B08SX5	1.06	2.02E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	2.14E+06	
T111	Cr	8/7/92	J-410	1.06	2018.8	ugm/gm	G	Sludge	Braun	Cr	2.14E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 5	1.24	1.73E+03	ug/g	I		B110 Core Data	Cr + 3	2.14E+06	
C107	Cr	8/2/77	T-8110-9		0.041	moles/l	G	Sludge	Braun	Cr	2.13E+06	
C107	Cr	10/4/77	510 Middle		4.10E-02	M	S		RAW	Cr + 3	2.13E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 4	1.3	1.64E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr + 3	2.13E+06	
B110	Chromium	4/1/90	CORE 3 SEGMENT 5	1.3	1.63E+03	ug/g	I	PRIMARY	B110 Core Data	Cr + 3	2.12E+06	
SX105	Cr	2/1/77	RAT-SX105-2	1.06	0.2	wt. %	A	Salts	Braun	Cr	2.12E+06	
SX105	Cr	2/1/77			2.12E+00	g/L	K	Saltcake	Wastren	Cr + 3	2.12E+06	
t111	Chromium	11/1/91	B08SX5	1.06	1.99E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	2.11E+06	
SX102	Cr				1.31E+05	g-moles	S		TRAC	Cr + 3	2.11E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 4	1.28	1.64E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr + 3	2.10E+06	
B110	Chromium	4/1/90	CORE 9 SEGMENT 5	1.24	1.69E+03	ug/g	I		B110 Core Data	Cr + 3	2.10E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 4	1.28	1.64E+03	ug/g	I	PRIMARY	B110 Core Data	Cr + 3	2.09E+06	
U110	Cr	11/29/89	89-070		1306	ugm/gm	G	Sludge	Braun	Cr	2.09E+06	
C107	Cr	9/26/77	T-510-28		0.04	moles/l	G	Sludge	Braun	Cr	2.08E+06	
C107	Cr	9/26/77	T-510-33		0.04	moles/l	G	Sludge	Braun	Cr	2.08E+06	
C107	Cr	9/26/77	510 Bottom		4.00E-02	M	S		RAW	Cr + 3	2.08E+06	
C107	Cr	9/26/77	510 Top		4.00E-02	M	S		RAW	Cr + 3	2.08E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t111	Chromium	11/1/91	B08SX5	1.06	1.96E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.08E+06	
b202	Chromium	6/7/91	B08SP6	0.98	2.08E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.04E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 5	1.28	1.58E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.02E+06	
b202	Chromium	6/7/91	B08SK0	0.93	2.17E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.02E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 5	1.3	1.55E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.01E+06	
b202	Chromium	6/7/91	B08SK0	0.93	2.16E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.01E+06	
b202	Chromium	6/7/91	B08SK0	0.93	2.16E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	2.01E+06	
B110	Chromium	4/1/90	CORE 1 SEGMENT 5	1.3	1.54E+03	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.00E+06	
TY104	Cr	8/16/85			2.00E+00	g/L	G	Sludge	Wastren	Cr +3	2.00E+06	
TY104	Cr	8/16/85	261S0000	1.48	1350	ugm/gm	G	Sludge/Composite	Braun	Cr	2.00E+06	
TY104	Cr	8/6/85	261SXXXX	1.48	1.35E+03	ug/g	I	core composite	RAW	Cr +3	2.00E+06	
b202	Chromium	6/7/91	B08SK0	0.93	2.12E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	1.97E+06	
C107	Cr	8/2/77	T-8110-10		0.0375	moles/l	G	Sludge	Braun	Cr	1.95E+06	
B110	Chromium	4/1/90	CORE 2 SEGMENT 5	1.28	1.51E+03	ug/g	I	PRIMARY	B110 Core Data	Cr +3	1.94E+06	
U110	Chromium	12/1/89	Core 15 Segment 3	1.3	1.48E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	1.93E+06	
BX110	Cr	9/18/80	RAT-BX110-1	1.45	0.131	wt. %	G	Sludge	Braun	Cr	1.90E+06	
B111	Cr	4/15/93	93-4316H1		1178	ugm/gm	G	Sludge	Braun	Cr	1.88E+06	
b202	Chromium	6/7/91	B08SM2	1.02	1.84E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	1.88E+06	
C107	Cr	8/2/77	T-8110-13		0.035	moles/l	G	Sludge	Braun	Cr	1.82E+06	
C111	Cr				9.83E+02	g-moles	S		TRAC	Cr +3	1.80E+06	
A103	Chromium	3/26/86	B1XCOOXX	1.34	1340	ugm/gm	G	Sludge/Composite	Braun	Cr	1.80E+06	
A103	Cr	2/24/87	B1xcooxx R-17	1.34	1.34E+03	ug/g	I	Composite Composite	RAW	Cr +3	1.80E+06	
B111	Cr	4/15/93	93-4312H1		1119	ugm/gm	G	Sludge	Braun	Cr	1.79E+06	
b111	Chromium	10/1/91	B08XB7	1.3	1.36E+03	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.77E+06	
C107	Cr	8/2/77	T-8110-14		0.034	moles/l	G	Sludge	Braun	Cr	1.77E+06	
C107	Cr	8/2/77			3.40E-02	M	S	Solids	RAW	Cr +3	1.77E+06	
B111	Cr	3/8/93	91-10553H-1T		1101	ugm/gm	G	Sludge	Braun	Cr	1.76E+06	
U110	Chromium	12/1/89	Core 13 Segment 3	1.14	1.53E+03	ug/g	I	PRIMARY	U110 Core Data	Cr +3	1.74E+06	
b202	Chromium	6/7/91	B08SP6	0.98	1.77E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	1.73E+06	
b202	Chromium	6/7/91	B08SM2	1.02	1.70E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	1.73E+06	
U110	Chromium	12/1/89	Core 13 Segment 4	1.46	1.19E+03	ug/g	I	PRIMARY	U110 Core Data	Cr +3	1.73E+06	
BX107	Cr	10/20/92	J925-AV		1079.9915	ugm/gm	G	Sludge/Composite	Braun	Cr	1.73E+06	
U110	Chromium	12/1/89	Core 13 Segment 3	1.14	1.51E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	1.72E+06	
TY104	Cr	8/6/85	232S0000	1.85	928	ugm/gm	G	Sludge/Composite	Braun	Cr	1.72E+06	
C107	Cr	9/26/77	T-510-27		0.033	moles/l	G	Sludge	Braun	Cr	1.72E+06	
C107	Cr	9/26/77	510 Bottom		3.30E-02	M	S		RAW	Cr +3	1.72E+06	
BX107	Cr	10/20/92	J925-AV		1070	ugm/gm	G	Sludge/Composite	Braun	Cr	1.71E+06	
U110	Chromium	12/1/89	Core 13 Segment 4	1.46	1.17E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	1.71E+06	
TY103	Cr	8/21/85	32XC0000	1.7	1000	ugm/gm	G	Sludge/Composite	Braun	Cr	1.70E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte Information		ID
						Unit				Analyte	ug/L	
TY103	Cr	9/1/85	32XCXXXX	1.7	1.00E+03	ug/g	I	Core composite	RAW	Cr + 3	1.70E+06	
S108	Cr + + +				3.26E-02	moles/L	S		HTCE Inv.	Cr + 3	1.70E+06	
TY104	Cr	12/20/79	RAT-TY104-1	1.41	0.12	wt. %	G	Sludge	Braun	Cr	1.69E+06	
B111	Cr	3/8/93	92-04054H-1T		1036	ugm/gm	G	Sludge	Braun	Cr	1.66E+06	
BX107	Cr	10/20/92	J927-AV		1030	ugm/gm	G	Sludge/Composite	Braun	Cr	1.65E+06	
b202	Chromium	6/7/91	B08SM2	1.02	1.61E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.64E+06	
TY104	Cr(3 +)	8/22/79		1.41	1.16E-01	wt %	S	H2O INSOLUBLE	RAW	Cr + 3	1.64E+06	
T104	Cr	9/18/80	RAT-T104-2	1.307	0.125	wt. %	G	Sludge	Braun	Cr	1.63E+06	
T104	Cr	9/18/80			1.63E+00	g/L	G	Sludge	Wastren	Cr + 3	1.63E+06	
C107	Cr	8/2/77	T-8110-11		0.031	moles/l	G	Sludge	Braun	Cr	1.61E+06	
C106	Cr	5/19/86			9.84E+02	ug/g	I	Composite	RAW	Cr + 3	1.57E+06	
C106	Cr	4/1/87	3		9.84E+02	mg/kg	S		RAW	Cr + 3	1.57E+06	
BX107	Cr	10/20/92	J927-AV		983.0157	ugm/gm	G	Sludge/Composite	Braun	Cr	1.57E+06	
T104	Cr	11/13/79	RAT-T104-1	1.31	0.12	wt. %	G	Sludge	Braun	Cr	1.57E+06	
U110	Cr	11/30/89	89-073/4/5/6		982	ugm/gm	G	Sludge/Composite	Braun	Cr	1.57E+06	
C110	Cr	8/31/77	T-9501-17		0.03	moles/l	G	Sludge	Braun	Cr	1.56E+06	
C110	Cr	8/31/77	T-9501-34		0.03	moles/l	G	Sludge	Braun	Cr	1.56E+06	
C110	Cr	6/10/77	9501		3.00E-02	M	G	Sludge	RAW	Cr + 3	1.56E+06	
C110	Cr	6/10/77	9501		3.00E-02	M	G	Sludge	RAW	Cr + 3	1.56E+06	
C107	Cr	8/2/77			3.00E-02	M	S	Solids	RAW	Cr + 3	1.56E+06	
BX107	Cr	10/20/92	J924-AV		972.1592	ugm/gm	G	Sludge/Composite	Braun	Cr	1.56E+06	
U110	Chromium	12/1/89	Core 5 Segment 3	1.04	1.49E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.55E+06	
BX112	Cr				3.72E+03	g-moles	S		TRAC	Cr + 3	1.55E+06	
BX110	Cr				6.56E+03	g-moles	S		TRAC	Cr + 3	1.53E+06	
b111	Chromium	10/1/91	B08XB7	1.3	1.17E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.52E+06	
b202	Chromium	6/7/91	B08SP6	0.98	1.54E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.51E+06	
C107	Cr	8/2/77	T-8110-12		0.029	moles/l	G	Sludge	Braun	Cr	1.51E+06	
TX113	Cr				1.38E+04	g-moles	S		TRAC	Cr + 3	1.49E+06	
BY104	Cr				6.41E+03	g-moles	S		TRAC	Cr + 3	1.49E+06	
TY103	Cr	8/21/85	31XC0000	1.7	871	ugm/gm	G	Sludge/Composite	Braun	Cr	1.48E+06	
TY103	Cr	9/1/85	31XCXXXX	1.7	8.71E+02	ug/g	I	Core composite	RAW	Cr + 3	1.48E+06	
B111	Cr	3/8/93	92-04062H-1T		924	ugm/gm	G	Sludge	Braun	Cr	1.48E+06	
U110	Cr	11/29/89	89-071		917	ugm/gm	G	Sludge	Braun	Cr	1.47E+06	
C105	Cr	4/11/86	C1XC00XX	1.55	943	ugm/gm	G	Sludge/Composite	Braun	Cr	1.46E+06	
C105	Cr	5/8/87		1.55	9.43E+02	ug/g	I	Composite	RAW	Cr + 3	1.46E+06	
C104	Cr	8/23/77	9172-B		0.028	moles/l	G	Sludge	Braun	Cr	1.46E+06	
C104	Cr	8/23/77	9172		2.80E-02	M	G	Sludge	RAW	Cr + 3	1.46E+06	
T102	Cr	3/1/93	93-087755	1.79	806	ugm/gm	G	Sludge/Composite	Braun	Cr	1.44E+06	
b111	Chromium	10/1/91	B08XB3	1.3	1.11E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.44E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
S102	Cr + + +				2.76E-02	moles/L	S		HTCE Inv.	Cr + 3	1.43E+06		
b111	Chromium	10/1/91	B08XB3	1.3	1.10E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.43E+06		
U110	Chromium	12/1/89	Core Composite 5	1.04	1.37E+03	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.43E+06		
U110	Cr	9/19/89	89-040		886	ugm/gm	G	Sludge	Braun	Cr	1.42E+06		
b202	Chromium	6/7/91	B08SM2	1.02	1.38E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.41E+06		
C106	Cr	5/19/86	G1XCOOXX	1.43	984	ugm/gm	G	Sludge/Composite	Braun	Cr	1.41E+06		
C106	Cr	4/14/87		1.43	9.84E+02	ug/g	S		RAW	Cr + 3	1.41E+06		
C106	Cr	4/17/87	G1xcxxxxR-1	1.43	9.84E+02	ug/g	I	Composite	RAW	Cr + 3	1.41E+06		
BX107	Cr	10/20/92	J926-AV		877	ugm/gm	G	Sludge/Composite	Braun	Cr	1.40E+06		
TY106	Cr	12/20/79	RAT-TY106-1	1.54	0.09	wt. %	G	Sludge	Braun	Cr	1.39E+06		
bx107	Chromium	6/1/92	B08SF0	1.326	1.04E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.38E+06		
T104	Cr	1/26/93	T104-C45-C1		862	ugm/gm	G	Sludge/Composite	Braun	Cr	1.38E+06		
b111	Chromium	10/1/91	B08XB3	1.3	1.06E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.37E+06		
BY107	Cr				1.60E+03	g-moles	S		TRAC	Cr + 3	1.37E+06		
BX107	Cr	10/20/92	J924-AV		854	ugm/gm	G	Sludge/Composite	Braun	Cr	1.37E+06		
bx107	Chromium	6/1/92	B08SF0	1.326	1.03E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.37E+06		
C104	Cr	4/15/86			1.36E+00	g/L	G	Sludge	Wastren	Cr + 3	1.36E+06		
B102	Cr				3.17E+02	g-moles	S		TRAC	Cr + 3	1.36E+06		
C104	Cr	4/15/86	D1XCOOXX	1.21	1120	ugm/gm	G	Sludge/Composite	Braun	Cr	1.36E+06		
bx107	Chromium	6/1/92	B08SF0	1.326	1.02E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.35E+06		
b111	Chromium	10/1/91	B08XB7	1.3	1.04E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.35E+06		
BX107	Cr	10/20/92	J926-AV		838.14045	ugm/gm	G	Sludge/Composite	Braun	Cr	1.34E+06		
TX118	Cr	1/28/80	RAT-TX118-1	1.341	0.1	wt. %	S	Solids	Braun	Cr	1.34E+06		
bx107	Chromium	6/1/92	B08SF0	1.326	1.01E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.34E+06		
b111	Chromium	10/1/91	B08XB7	1.3	1.03E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.34E+06		
U110	Chromium	12/1/89	Core Composite 6	1.54	8.68E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.34E+06		
T104	Cr	1/26/93	T104-C45-C2		833	ugm/gm	G	Sludge/Composite	Braun	Cr	1.33E+06		
T102	Cr	5/4/93	Core 55		8.06E+02	ug/g	I	core segment	RAW	Cr + 3	1.29E+06		
U110	Chromium	12/1/89	Core Composite 13	1.3	9.82E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.28E+06		
U110	Cr	11/29/89	89-072		794	ugm/gm	G	Sludge	Braun	Cr	1.27E+06		
S109	Cr	12/8/76	RAT-S109-1	1.27	0.1	wt. %	A	Salts	Braun	Cr	1.27E+06		
S109	Cr	12/8/76			1.27E+00	g/L	K	Saltcake	Wastren	Cr + 3	1.27E+06		
t104	Chromium	8/26/92	B08S09	1.13	1.12E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.27E+06		
TX118	Cr	2/3/77	RAT-TX118-1	1.26	0.1	wt. %	S	Solids	Braun	Cr	1.26E+06		
U110	Chromium	12/1/89	Core Composite 5	1.04	1.20E+03	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.25E+06		
bx107	Chromium	6/1/92	B08SD6	0.996	1.25E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.24E+06		
BY105	Cr				4.85E+03	g-moles	S		TRAC	Cr + 3	1.23E+06		
U110	Chromium	12/1/89	Core 12 Segment 4	1.48	8.25E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.22E+06		
bx107	Chromium	6/1/92	B08SD6	0.996	1.22E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.21E+06		

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
B204	Cr + + +				2.31E-02	moles/L	S		HTCE Inv.	Cr + 3	1.20E+06		
B203	Cr + + +				2.31E-02	moles/L	S		HTCE Inv.	Cr + 3	1.20E+06		
B202	Cr + + +				2.31E-02	moles/L	S		HTCE Inv.	Cr + 3	1.20E+06		
B201	Cr + + +				2.31E-02	moles/L	S		HTCE Inv.	Cr + 3	1.20E+06		
b111	Chromium	10/1/91	B08XB3	1.3	9.23E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.20E+06		
bx107	Chromium	6/1/92	B08SD6	0.996	1.19E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.19E+06		
t104	Chromium	8/26/92	B08S09	1.13	1.04E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	1.18E+06		
U110	Chromium	12/1/89	Core 12 Segment 4	1.48	7.94E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.18E+06		
bx107	Chromium	6/1/92		B08SD6	0.996	1.17E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.16E+06	
t104	Chromium	8/26/92	B08S09	1.13	1.03E+03	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	1.16E+06		
t104	Chromium	8/26/92	B08S09	1.13	1.03E+03	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.16E+06		
s104	Chromium	8/1/92	B08TL3	1.6	7.24E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	1.16E+06		
s104	Chromium	8/1/92	B08TL3		7.24E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	1.16E+06		
T111	Cr	8/7/92	J-402	0.93	1222.9	ugm/gm	G	Sludge	Braun	Cr	1.14E+06		
t111	Chromium	11/1/91	B08ST7	0.93	1.22E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.13E+06		
t111	Chromium	11/1/91	B08ST7	0.93	1.20E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.12E+06		
SX106	Cr	4/18/78	8301	1.37	0.08	wt. %	S	Supernate/Solids	Braun	Cr	1.10E+06		
s104	Chromium	8/1/92	B08TL4	1.6	6.85E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.10E+06		
s104	Chromium	8/1/92	B08TL4		6.85E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	1.10E+06		
U110	Chromium	12/1/89	Core Composite 12	1.42	7.64E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.08E+06		
U110	Chromium	12/1/89	Core Composite 12	1.42	7.64E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.08E+06		
U110	Chromium	12/1/89	Core Composite 12	1.42	7.60E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.08E+06		
t111	Chromium	11/1/91	B08ST7	0.93	1.16E+03	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.08E+06		
T204	Cr	12/4/78	1914	1.07	0.1	wt. %	G	Sludge	Braun	Cr	1.07E+06		
SX106	Cr	4/18/78	8301	1.33	0.08	wt. %	S	Supernate/Solids	Braun	Cr	1.06E+06		
t102	Chromium	3/1/93	B0B732	1.32	8.06E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.06E+06		
t111	Chromium	11/1/91	B08ST7	0.93	1.14E+03	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.06E+06		
TY103	Cr	8/21/85			1.06E+00	g/L	G	Sludge	Wastren	Cr + 3	1.06E+06		
T104	Cr (3 +)	11/13/79		1.31	2.00E-02	M	I	soft sticky putty	RAW	Cr + 3	1.04E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.86E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.04E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.79E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.03E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.79E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.03E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.76E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.02E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.74E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.02E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.72E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.02E+06		
U110	Chromium	12/1/89	Core Composite 12	1.42	7.16E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.02E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.70E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	1.02E+06		
S112	Cr + + +				1.95E-02	moles/L	S		HTCE Inv.	Cr + 3	1.02E+06		
t102	Chromium	3/1/93	B0B732	1.32	7.67E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	1.01E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t102	Chromium	3/1/93	BOB732	1.32	7.67E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.01E+06	
U111	Cr + + +				1.93E-02	moles/L	S		HTCE Inv.	Cr +3	1.00E+06	
t102	Chromium	3/1/93	BOB732	1.32	7.48E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	9.87E+05	
t102	Chromium	3/1/93	BOB732	1.32	7.37E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	9.73E+05	
U110	Chromium	12/1/89	Core Composite 5	1.04	9.33E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	9.70E+05	
t102	Chromium	3/1/93	BOB732	1.32	7.35E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	9.70E+05	
B202	Cr	12/31/91			9.68E-01	g/L	G	Sludge	Wastren	Cr +3	9.68E+05	
U110	Chromium	12/1/89	Core Composite 12	1.42	6.78E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	9.63E+05	
U110	Chromium	12/1/89	Core Composite 13	1.3	7.40E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	9.63E+05	
U110	Chromium	12/1/89	Core Composite 13	1.3	7.27E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	9.46E+05	
b111	Chromium	10/1/91	B08XB9	1	9.30E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	9.30E+05	
U110	Cr	9/19/89	89-040/1		581	ugm/gm	G	Sludge/Composite	Braun	Cr	9.30E+05	
U110	Chromium	12/1/89	Core 12 Segment 3	1	9.24E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	9.24E+05	
b111	Chromium	10/1/91	B08XB9	1	9.24E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	9.24E+05	
U110	Chromium	12/1/89	Core 5 Segment 3	1.04	8.86E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	9.21E+05	
U110	Chromium	12/1/89	Core 12 Segment 3	1	9.17E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	9.17E+05	
b111	Chromium	10/1/91	B08XB9	1	9.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	9.12E+05	
b111	Chromium	10/1/91	B08XB9	1	8.98E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	8.98E+05	
T111	Cr				3.46E+04	g-moles	S		TRAC	Cr +3	8.96E+05	
TY103	Cr	9/18/80	RAT-TY103-1	1.5	0.059	wt. %	G	Sludge	Braun	Cr	8.85E+05	
U110	Chromium	12/1/89	Core Composite 5	1.04	8.51E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	8.85E+05	
U110	Cr	9/19/89	89-041		552	ugm/gm	G	Sludge	Braun	Cr	8.83E+05	
U110	Chromium	12/1/89	Core 5 Segment 4		5.52E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	8.83E+05	
U110	Chromium	12/1/89	Core Composite 13	1.3	6.76E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	8.79E+05	
U110	Cr	12/4/89	89-084		548	ugm/gm	G	Sludge	Braun	Cr	8.77E+05	
t102	Chromium	3/1/93	BOB732	1.32	6.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	8.63E+05	
t107	Chromium	3/1/93	B08VFO	1.38	6.23E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	8.60E+05	
b202	Chromium	6/7/91	B08SP5	0.87	9.84E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	8.56E+05	
U110	Cr	11/10/89	89-044		531	ugm/gm	G	Sludge	Braun	Cr	8.50E+05	
U110	Chromium	12/1/89	Core Composite 13	1.3	6.49E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	8.44E+05	
t107	Chromium	3/1/93	B08VFO	1.38	6.08E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	8.39E+05	
C103	Cr	5/8/87	F1XCXXXX	1.13	7.31E+02	ug/g	I	Composite	RAW	Cr +3	8.26E+05	
C103	Cr	5/7/86	F1XCOOXX	1.13	731	ugm/gm	G	Sludge/Composite	Braun	Cr	8.26E+05	
T105	Cr				6.69E+03	g-moles	S		TRAC	Cr +3	8.20E+05	
t107	Chromium	3/1/93	B08VFO	1.38	5.93E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	8.18E+05	
U110	Chromium	12/1/89	Core 6 Segment 2	1.59	5.11E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	8.12E+05	
U110	Chromium	12/1/89	Core 5 Segment 4		4.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	7.95E+05	
t107	Chromium	3/1/93	B08VFO	1.38	5.72E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	7.89E+05	
B202	Cr				9.18E+01	g-moles	S		TRAC	Cr +3	7.87E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information												Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID	
t107	Chromium	3/1/93	B08VFO	1.38	5.63E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	7.77E+05		
C103	Cr	5/14/86	F2XCOOXX	1.54	504	ugm/gm	G	Sludge/Composite	Braun	Cr	7.76E+05		
C103	Cr	5/8/87	F1XCXXXX	1.54	5.04E+02	ug/g	I	Composite	RAW	Cr + 3	7.76E+05		
t107	Chromium	3/1/93	B08VFO	1.38	5.61E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	7.74E+05		
U110	Chromium	12/1/89	Core Composite 12	1.42	5.41E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	7.68E+05		
C110	Cr + + +				1.46E-02	moles/L	S		HTCE Inv.	Cr + 3	7.59E+05		
BX108	Cr + + +				1.46E-02	moles/L	S		HTCE Inv.	Cr + 3	7.59E+05		
B107	Cr + + +				1.46E-02	moles/L	S		HTCE Inv.	Cr + 3	7.59E+05		
BX107	Cr + + +				1.46E-02	moles/L	S		HTCE Inv.	Cr + 3	7.59E+05		
B110	Cr + + +				1.46E-02	moles/L	S		HTCE Inv.	Cr + 3	7.58E+05		
B110	Cr				3.25E+04	g-moles	S		TRAC	Cr + 3	7.56E+05		
U110	Chromium	12/1/89	Core 7 Segment 3	1.53	4.92E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	7.53E+05		
t107	Chromium	3/1/93	B08VFO	1.38	5.45E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	7.52E+05		
U110	Chromium	12/1/89	Core Composite 7	1.675	4.43E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	7.43E+05		
t107	Chromium	3/1/93	B08VFO	1.38	5.32E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	7.34E+05		
U110	Chromium	12/1/89	Core 15 Segment 3	1.3	5.63E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	7.32E+05		
U110	Cr + + +				1.39E-02	moles/L	S		HTCE Inv.	Cr + 3	7.22E+05		
U110	Cr	11/15/89	89-048		450	ugm/gm	G	Sludge	Braun	Cr	7.20E+05		
B111	Cr + + +				1.38E-02	moles/L	S		HTCE Inv.	Cr + 3	7.20E+05		
U110	Chromium	12/1/89	Core 15 Segment 4	1.31	5.48E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	7.18E+05		
U110	Cr	11/10/89	89-043		448	ugm/gm	G	Sludge	Braun	Cr	7.17E+05		
U110	Chromium	12/1/89	Core 6 Segment 2	1.59	4.48E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	7.12E+05		
t107	Chromium	3/1/93	B08VFO	1.38	5.16E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	7.12E+05		
U110	Chromium	12/1/89	Core 14 Segment 4	1.62	4.39E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	7.11E+05		
s104	Chromium	8/1/92	B08TL3	1.6	4.39E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	7.02E+05		
s104	Chromium	8/1/92	B08TL3		4.39E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	7.02E+05		
s104	Chromium	8/1/92	B08TL4	1.6	4.38E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	7.01E+05		
s104	Chromium	8/1/92	B08TL4		4.38E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr + 3	7.01E+05		
U110	Chromium	12/1/89	Core Composite 5	1.04	6.68E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	6.95E+05		
b202	Chromium	6/7/91	B08SP5	0.87	7.97E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr + 3	6.93E+05		
U110	Chromium	12/1/89	Core 7 Segment 3	1.53	4.50E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	6.89E+05		
B104	Cr				1.53E+04	g-moles	S		TRAC	Cr + 3	6.82E+05		
C107	Cr + + +				1.31E-02	moles/L	S		HTCE Inv.	Cr + 3	6.79E+05		
c112	Chromium	3/1/92	B08DN8	1.6	4.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	6.56E+05		
U110	Chromium	12/1/89	Core Composite 7	1.675	3.88E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	6.50E+05		
U110	Chromium	12/1/89	Core 6 Segment 3	1.22	5.31E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	6.48E+05		
U110	Chromium	12/1/89	Core 6 Segment 3	1.22	5.29E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	6.45E+05		
U110	Chromium	12/1/89	Core Composite 15	1.29	4.99E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	6.43E+05		
U110	Chromium	12/1/89	Core Composite 14	1.48	4.32E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	6.40E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Chromium	12/1/89	Core Composite 7	1.675	3.79E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	6.35E+05	
U110	Cr	12/4/89	89-082/3/4		396	ugm/gm	G	Sludge/Composite	Braun	Cr	6.34E+05	
A106	Cr				1.01E+03	g-moles	S		TRAC	Cr +3	6.30E+05	
b202	Chromium	6/7/91	B08SP5	0.87	7.17E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	6.24E+05	
c109	Chromium	9/1/92	B08T16	1.3	4.78E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	6.21E+05	
C109	Cr				1.63E+02	g-moles	S		TRAC	Cr +3	6.21E+05	
BX112	Cr + + +				1.18E-02	moles/L	S		HTCE Inv.	Cr +3	6.11E+05	
U110	Cr	11/15/89	89-046/7/8/9		379	ugm/gm	G	Sludge/Composite	Braun	Cr	6.06E+05	
T112	Cr				2.80E+04	g-moles	S		TRAC	Cr +3	6.06E+05	
b202	Chromium	6/7/91	B08SP5	0.87	6.95E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	6.05E+05	
U110	Chromium	12/1/89	Core Composite 5	1.04	5.81E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	6.05E+05	
b202	Chromium	6/7/91	B08SP5	0.87	6.95E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	6.05E+05	
b202	Chromium	6/7/91	B08SP5	0.87	6.91E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	6.01E+05	
c112	Chromium	3/1/92	B08DN8	1.6	3.74E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.98E+05	
BX110	Cr + + +				1.15E-02	moles/L	S		HTCE Inv.	Cr +3	5.98E+05	
B104	Cr + + +				1.15E-02	moles/L	S		HTCE Inv.	Cr +3	5.96E+05	
U110	Chromium	12/1/89	Core Composite 13	1.3	4.58E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	5.95E+05	
U110	Cr	12/4/89	89-082		371	ugm/gm	G	Sludge	Braun	Cr	5.94E+05	
t107	Chromium	3/1/93	B08VR2	1.735	3.39E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.88E+05	
U110	Chromium	12/1/89	Core 14 Segment 2	1.39	4.23E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	5.88E+05	
U110	Chromium	12/1/89	Core Composite 6	1.54	3.79E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	5.84E+05	
t107	Chromium	3/1/93	B08V39	1.57	3.70E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.81E+05	
U110	Chromium	12/1/89	Core Composite 6	1.54	3.77E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	5.80E+05	
T110	Cr				2.24E+04	g-moles	S		TRAC	Cr +3	5.79E+05	
U110	Chromium	12/1/89	Core Composite 7	1.675	3.44E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	5.76E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.85E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.73E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.83E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.69E+05	
t107	Chromium	3/1/93	B08V43	1.15	4.94E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.68E+05	
t107	Chromium	3/1/93	B08VR2	1.735	3.27E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.67E+05	
A103	Cr + + +				1.08E-02	moles/L	S		HTCE Inv.	Cr +3	5.63E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.77E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	5.57E+05	
t107	Chromium	3/1/93	B08V44	1.1	5.04E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.54E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.75E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.53E+05	
t105	Chromium	5/28/93	B08WT2	0.89	6.19E+02	mg/kg	S	PRIMARY RESULT	TCD	Cr +3	5.51E+05	
U110	Cr	12/3/89	89-078		343	ugm/gm	G	Sludge	Braun	Cr	5.49E+05	
C102	Cr	2/1/91			3.40E+02	mg/kg	S	Na2O2 Fusion	RAW	Cr +3	5.44E+05	
t105	Chromium	5/28/93	B08WT2	0.89	6.06E+02	mg/kg	S	DUPLICATE RESULT	TCD	Cr +3	5.39E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.67E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.37E+05	
t107	Chromium	3/1/93	B08V39	1.57	3.41E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	5.35E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
c112	Chromium	3/1/92	B08DY1	2	2.64E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	5.28E+05	
t107	Chromium	3/1/93	B08V44	1.1	4.80E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	5.28E+05	
SX102	Cr	4/18/75	RAT-SX102-1	1.88	0.01	moles/l	S	Supernate/Solids	Braun	Cr	5.20E+05	
c112	Chromium	3/1/92	B08DY1	2	2.58E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	5.16E+05	
C102	Cr	12/1/86	RAT-C102-2		322	ugm/gm	I	Composite	Braun	Cr	5.15E+05	
C102	Cr	6/17/87			3.22E+02	ug/g	S	Acid/PARR	RAW	Cr+3	5.15E+05	
U110	Chromium	12/1/89	Core Composite 14	1.48	3.46E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	5.13E+05	
U110	Chromium	12/1/89	Core Composite 15	1.29	3.96E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	5.11E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	5.11E+05	
T105	Cr	10/26/93	RAT-T105-2B	2.01	252	ugm/gm	G	Sludge/Composite	Braun	Cr	5.07E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.50E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	5.03E+05	
U110	Chromium	12/1/89	Core 15 Segment 2	1.27	3.92E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr+3	4.98E+05	
AX103	Cr + + +				9.56E-03	moles/L	S		HTCE Inv.	Cr+3	4.97E+05	
TY103	Cr(3+)	9/23/80		1.5	3.26E-02	wt %	K	saltcake	RAW	Cr+3	4.89E+05	
TY106	Cr	9/18/80	RAT-TY106-2	1.86	0.0261	wt. %	G	Sludge	Braun	Cr	4.85E+05	
U112	Cr				4.74E+03	g-moles	S		TRAC	Cr+3	4.85E+05	
t105	Chromium	5/28/93	B08WT4	2.01	2.41E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	4.84E+05	
C111	Cr + + +				9.22E-03	moles/L	S		HTCE Inv.	Cr+3	4.79E+05	
t107	Chromium	3/1/93	B08V43	1.15	4.15E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	4.77E+05	
C102	Cr	7/10/86	E1XCOOXM		298	ugm/gm	G	Sludge/Composite	Braun	Cr	4.77E+05	
C102	Cr	6/17/87			2.98E+02	ug/g	S	PARR	RAW	Cr+3	4.77E+05	
C102	Cr	1/21/88	E1XCOOXM		2.98E+02	ug/g	S	PARR	RAW	Cr+3	4.77E+05	
U110	Chromium	12/1/89	Core 14 Segment 2	1.39	3.43E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	4.77E+05	
U110	Chromium	12/1/89	Core 15 Segment 2	1.27	3.71E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	4.71E+05	
t107	Chromium	3/1/93	B08VB9	1.19	3.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.63E+05	
U110	Chromium	12/1/89	Core Composite 6	1.54	2.98E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr+3	4.59E+05	
U110	Chromium	12/1/89	Core Composite 14	1.48	3.10E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	4.58E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.95E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.54E+05	
c112	Chromium	3/1/92	B08DY1	2	2.27E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.54E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.92E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	4.51E+05	
t111	Chromium	11/1/91	B08ST5	0.88	5.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.51E+05	
C102	Cr	2/1/91			2.80E+02	mg/kg	S	KOH Fusion	RAW	Cr+3	4.48E+05	
C102	Cr	2/1/91			2.80E+02	mg/kg	S	KOH Fusion	RAW	Cr+3	4.48E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.78E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.45E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.87E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	4.45E+05	
t111	Chromium	11/1/91	B08ST5	0.88	5.03E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	4.43E+05	
U110	Chromium	12/1/89	Core Composite 15	1.29	3.41E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr+3	4.40E+05	
TY102	Cr				3.19E+02	g-moles	S		TRAC	Cr+3	4.38E+05	
AX102	Cr + + +				8.40E-03	moles/L	S		HTCE Inv.	Cr+3	4.37E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Chromium	12/1/89	Core Composite 14	1.48	2.94E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	4.35E+05	
C102	Cr	7/10/86	E1XCOOXX	1.351	322	ugm/gm	G	Sludge/Composite	Braun	Cr	4.35E+05	
U110	Cr	11/15/89	89-047		267	ugm/gm	G	Sludge	Braun	Cr	4.27E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	3.29E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.24E+05	
c112	Chromium	3/1/92	B08DY1	2	2.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.24E+05	
t111	Chromium	11/1/91	B08ST5	0.88	4.80E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.22E+05	
c112	Chromium	3/1/92	B08DY1	2	2.11E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.22E+05	
SX106	Cr + + +				8.10E-03	moles/L	S		HTCE Inv.	Cr + 3	4.21E+05	
C102	Cr	2/1/91	1		2.63E+02	mg/kg	S	Total	RAW	Cr + 3	4.21E+05	
U110	Chromium	12/1/89	Core 14 Segment 4	1.62	2.59E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	4.20E+05	
U110	Chromium	12/1/89	Core Composite 15	1.29	3.23E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	4.17E+05	
TX111-	Cr				3.03E+02	g-moles	S		TRAC	Cr + 3	4.16E+05	
U110	Cr	12/3/89	89-080		259	ugm/gm	G	Sludge	Braun	Cr	4.14E+05	
t107	Chromium	3/1/93	B08VB9	1.19	3.48E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.14E+05	
c112	Chromium	3/1/92	B08DY1	2	2.05E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.10E+05	
t107	Chromium	3/1/93	B08VF0	1.38	2.96E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.08E+05	
c112	Chromium	3/1/92	B08DY1	2	2.04E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.08E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.55E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.08E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.07E+05	
t107	Chromium	3/1/93	B08VB9	1.19	3.42E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.07E+05	
t107	Chromium	3/1/93	B08VB9	1.19	3.41E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.06E+05	
c109	Chromium	9/1/92	B08T16	1.3	3.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	4.06E+05	
T111	Cr	8/7/92	J-398	0.88	460.3	ugm/gm	G	Sludge	Braun	Cr	4.05E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	3.14E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.05E+05	
t111	Chromium	11/1/91	B08ST5	0.88	4.60E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.05E+05	
c112	Chromium	3/1/92	B08DY1	2	2.02E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.03E+05	
c109	Chromium	9/1/92	B08T16	1.3	3.09E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.02E+05	
c112	Chromium	3/1/92	B08DY1	2	2.00E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.00E+05	
C102	Cr	2/1/91	2		2.48E+02	mg/kg	S	Total	RAW	Cr + 3	3.97E+05	
C102	Cr	2/1/91	2		2.48E+02	mg/kg	S	water leach	RAW	Cr + 3	3.97E+05	
U204	Cr	12/4/78	RAT-U204-1	1.31	0.03	wt. %	S	Solids	Braun	Cr	3.93E+05	
U204	Cr	12/4/78			3.93E-01	g/L	G	Sludge	Wastren	Cr + 3	3.93E+05	
t107	Chromium	3/1/93	B08V44	1.1	3.55E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	3.91E+05	
U110	Chromium	12/1/89	Core 7 Segment 2	1.46	2.67E+02	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	3.90E+05	
C102	Cr	2/1/91	1		2.43E+02	mg/kg	S	water leach	RAW	Cr + 3	3.89E+05	
AX101	Cr + + +				7.48E-03	moles/L	S		HTCE Inv.	Cr + 3	3.89E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.36E+02	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	3.86E+05	
c112	Chromium	3/1/92	B08DY1	2	1.92E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	3.84E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.34E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	3.84E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Chromium	3/1/93	B08VF0	1.38	2.75E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.80E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.36E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.77E+05	
c112	Chromium	3/1/92	B08DY1	2	1.88E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.76E+05	
t107	Chromium	3/1/93	B08V44	1.1	3.42E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.76E+05	
c112	Chromium	3/1/92	B08DY1	2	1.88E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.76E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.73E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.33E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.72E+05	
c112	Chromium	3/1/92	B08DY1	2	1.86E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.71E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.31E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.70E+05	
t107	Chromium	3/1/93	B08V43	1.15	3.21E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.69E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.86E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.69E+05	
t107	Chromium	3/1/93	B08VB9	1.19	3.09E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.68E+05	
c112	Chromium	3/1/92	B08DN6	1.3	2.83E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.67E+05	
U110	Chromium	12/1/89	Core 7 Segment 4	1.93	1.90E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	3.67E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.26E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.62E+05	
c109	Chromium	9/1/92	B08T15	1.2	3.00E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.60E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.79E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.60E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.25E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.60E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.78E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.59E+05	
B112	Cr + + +				6.86E-03	moles/L	S		HTCE Inv.	Cr+3	3.57E+05	
c112	Chromium	3/1/92	B08DY1	2	1.77E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.54E+05	
U110	Chromium	12/1/89	Core Composite 15	1.29	2.71E+02	ug/g	I	PRIMARY	U110 Core Data	Cr+3	3.50E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.18E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.49E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.17E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.48E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.15E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.44E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.15E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.44E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.14E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.43E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.13E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.41E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.64E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.41E+05	
c112	Chromium	3/1/92	B08DN8	1.6	2.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.40E+05	
U110	Chromium	12/1/89	Core 6 Segment 4	1.8	1.88E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr+3	3.38E+05	
C108	Cr				1.47E+03	g-moles	S		TRAC	Cr+3	3.37E+05	
c112	Chromium	3/1/92	B08DN8	1.6	2.10E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.36E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.10E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.36E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.36E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	3.36E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.09E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.35E+05	
t107	Chromium	3/1/93	B08VD9	1.305	2.56E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.34E+05	
t107	Chromium	3/1/93	B08VB9	1.19	2.80E+02	ug/g	S	PRIMARY RESULT	TCD	Cr+3	3.33E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	
t107	Chromium	3/1/93	B08VB9	1.19	2.80E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.33E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.07E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.31E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.73E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.28E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.52E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.28E+05	
A101	Cr + + +				6.27E-03	moles/L	S		HTCE Inv.	Cr +3	3.26E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.52E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.25E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.02E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.24E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.02E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.24E+05	
c112	Chromium	3/1/92	B08DM7	1.6	2.02E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.23E+05	
t107	Chromium	3/1/93	B08V43	1.15	2.80E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.22E+05	
c109	Chromium	9/1/92	B08T15	1.2	2.65E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.18E+05	
c112	Chromium	3/1/92	B08DN8	1.6	1.97E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.16E+05	
t107	Chromium	3/1/93	B08VD9	1.305	2.42E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.16E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.63E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.16E+05	
U110	Cr	12/3/89	89-079		196	ugm/gm	G	Sludge	Braun	Cr	3.14E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.41E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.13E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.39E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.11E+05	
U110	Chromium	12/1/89	Core Composite 15	1.29	2.40E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	3.09E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.55E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.06E+05	
c112	Chromium	3/1/92	B08DN8	1.6	1.91E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.05E+05	
U110	Cr	11/15/89	89-049		190	ugm/gm	G	Sludge	Braun	Cr	3.04E+05	
c112	Chromium	3/1/92	B08DN8	1.6	1.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.02E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.33E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.01E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.29E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.98E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.48E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.98E+05	
c112	Chromium	3/1/92	B08DN8	1.6	1.86E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.97E+05	
U110	Chromium	12/1/89	Core 7 Segment 4	1.93	1.54E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	2.97E+05	
t107	Chromium	3/1/93	B08TZ2	1.29	2.29E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.95E+05	
c112	Chromium	3/1/92	B08DM7	1.6	1.85E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.95E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.27E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.95E+05	
c112	Chromium	3/1/92	B08DM7	1.6	1.84E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.95E+05	
c112	Chromium	3/1/92	B08DN6	1.3	2.25E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.93E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.44E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.93E+05	
A102	Cr + + +				5.61E-03	moles/L	S		HTCE Inv.	Cr +3	2.92E+05	
c109	Chromium	9/1/92	B08T16	1.3	2.24E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.91E+05	
c109	Chromium	9/1/92	B08T15	1.2	2.42E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.90E+05	
c109	Chromium	9/1/92	B08T17	1.2	2.41E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.89E+05	
c112	Chromium	3/1/92	B08DM6	1.5	1.91E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.87E+05	
c112	Chromium	3/1/92	B08DN8	1.6	1.79E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.86E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
c112	Chromium	3/1/92	B08DN6	1.3	2.19E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.85E+05		
c109	Chromium	9/1/92	B08T16	1.3	2.18E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.83E+05		
U110	Chromium	12/1/89	Core 7 Segment 2	1.46	1.94E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	2.83E+05		
c112	Chromium	3/1/92	B08DM6	1.5	1.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.83E+05		
c112	Chromium	3/1/92	B08DN6	1.3	2.13E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.77E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.30E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.76E+05		
c112	Chromium	3/1/92	B08DN6	1.3	2.12E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.76E+05		
U110	Chromium	12/1/89	Core Composite 7	1.675	1.64E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	2.75E+05		
B108	Cr + + +				5.28E-03	moles/L	S		HTCE Inv.	Cr +3	2.75E+05		
c112	Chromium	3/1/92	B08DN6	1.3	2.11E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.74E+05		
U110	Chromium	12/1/89	Core 14 Segment 3	1.4	1.96E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	2.74E+05		
c112	Chromium	3/1/92	B08DN6	1.3	2.11E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.74E+05		
U110	Chromium	12/1/89	Core Composite 7	1.675	1.63E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	2.72E+05		
C105	Cr				5.19E+03	g-moles	S		TRAC	Cr +3	2.71E+05		
TY106	Cr	7/31/85	111C0000	1.31	206	ugm/gm	G	Sludge/Composite	Braun	Cr	2.70E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.23E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.68E+05		
U110	Chromium	12/1/89	Core 14 Segment 3	1.4	1.90E+02	ug/g	I	DUPLICATE	U110 Core Data	Cr +3	2.66E+05		
c112	Chromium	3/1/92	B08DY1	2	1.32E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.64E+05		
c112	Chromium	3/1/92	B08DY1	2	1.32E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.63E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.19E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.63E+05		
TY101	Cr(3+)	9/18/80		1.707	1.53E-02	wt %	G	sludge	RAW	Cr +3	2.61E+05		
c109	Chromium	9/1/92	B08T15	1.2	2.17E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.60E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.16E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.59E+05		
c112	Chromium	3/1/92	B08DN8	1.6	1.61E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.57E+05		
BX107	Cr	10/20/92	J927-AV		159.42435	ugm/gm	G	Sludge/Composite	Braun	Cr	2.55E+05		
c109	Chromium	9/1/92	B08T16	1.3	1.96E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.55E+05		
c109	Chromium	9/1/92	B08T15	1.2	2.11E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.53E+05		
c109	Chromium	9/1/92	B08T16	1.3	1.94E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.52E+05		
BX107	Cr	10/20/92	J924-AV		157.42945	ugm/gm	G	Sludge/Composite	Braun	Cr	2.52E+05		
BX107	Cr	10/20/92	J925-AV		156	ugm/gm	G	Sludge/Composite	Braun	Cr	2.50E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.07E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.48E+05		
c109	Chromium	9/1/92	B08T17	1.2	2.07E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.48E+05		
c112	Chromium	3/1/92	B08DN8	1.6	1.55E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.48E+05		
c109	Chromium	9/1/92	B08T15	1.2	2.04E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.45E+05		
B110	Chromium	4/1/90	Core Composite 2	1.33	1.83E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.43E+05		
c112	Chromium	3/1/92	B08DN8	1.6	1.52E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.43E+05		
B110	Chromium	4/1/90	Core Composite 2	1.33	1.78E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.37E+05		
B110	Chromium	4/1/90	Core Composite 3	1.36	1.74E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.36E+05		
B110	Chromium	4/1/90	Core Composite 3	1.36	1.74E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.36E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c109	Chromium	9/1/92	B08T17	1.2	1.96E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.35E+05	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.71E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.29E+05	
B110	Chromium	4/1/90	Core Composite 10	1.34	1.71E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.29E+05	
t107	Chromium	3/1/93	B08VD8	1.42	1.61E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.29E+05	
c109	Chromium	9/1/92	B08T17	1.2	1.90E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.28E+05	
S105	Cr + + +				4.27E-03	moles/L	S		HTCE Inv.	Cr +3	2.22E+05	
t107	Chromium	3/1/93	B08TZ3	0.95	2.33E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.21E+05	
B110	Chromium	4/1/90	Core Composite 1	1.36	1.58E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.15E+05	
B110	Chromium	4/1/90	Core Composite 1	1.36	1.58E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.15E+05	
U110	Chromium	12/1/89	Core 6 Segment 4	1.8	1.19E+02	ug/g	I	PRIMARY	U110 Core Data	Cr +3	2.14E+05	
BX109	Cr				1.09E+02	g-moles	S		TRAC	Cr +3	2.14E+05	
BX107	Cr	10/20/92	J926-AV		133.04255	ugm/gm	G	Sludge/Composite	Braun	Cr	2.13E+05	
TY105	Cr	9/13/85	61XC0000		133	ugm/gm	G	Sludge/Composite	Braun	Cr	2.13E+05	
B105	Cr				1.53E+03	g-moles	S		TRAC	Cr +3	2.12E+05	
B110	Chromium	4/1/90	Core Composite 4	1.36	1.54E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	2.09E+05	
c109	Chromium	9/1/92	B08T17	1.2	1.74E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.09E+05	
C108	Cr + + +				3.98E-03	moles/L	S		HTCE Inv.	Cr +3	2.07E+05	
TY105	Cr	9/13/85	61XC0000	1.53	133	ugm/gm	G	Sludge/Composite	Braun	Cr	2.03E+05	
B110	Chromium	4/1/90	Core Composite 4	1.36	1.49E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	2.03E+05	
c109	Chromium	9/1/92	B08T17	1.2	1.68E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.02E+05	
U107	Cr + + +				3.86E-03	moles/L	S		HTCE Inv.	Cr +3	2.01E+05	
c112	Chromium	3/1/92	B08DN6	1.3	1.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.00E+05	
A106	Cr + + +				3.84E-03	moles/L	S		HTCE Inv.	Cr +3	2.00E+05	
SX103	Cr				1.46E+04	g-moles	S		TRAC	Cr +3	1.96E+05	
t107	Chromium	3/1/93	B08TZ3	0.95	2.05E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.95E+05	
t105	Chromium	5/28/93	B08WT4	2.01	9.63E+01	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.94E+05	
B111	Cr				7.70E+03	g-moles	S		TRAC	Cr +3	1.93E+05	
B103	Cr				3.52E+01	g-moles	S		TRAC	Cr +3	1.93E+05	
U110	Cr	11/10/89	89-045		119	ugm/gm	G	Sludge	Braun	Cr	1.90E+05	
t105	Chromium	5/28/93	B08WT4	2.01	9.43E+01	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.90E+05	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.38E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	1.88E+05	
B110	Chromium	4/1/90	Core Composite 18	1.37	1.37E+02	ug/g	I	PRIMARY	B110 Core Data	Cr +3	1.88E+05	
BX111	Cr				6.56E+02	g-moles	S		TRAC	Cr +3	1.88E+05	
BY108	Cr				1.75E+02	g-moles	S		TRAC	Cr +3	1.85E+05	
t105	Chromium	5/28/93	B08WT2	0.89	2.01E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.79E+05	
t105	Chromium	5/28/93	B08WT2	0.89	2.00E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.78E+05	
c109	Chromium	9/1/92	B08T17	1.2	1.47E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.76E+05	
t107	Chromium	3/1/93	B08VD8	1.42	1.23E+02	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.75E+05	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.29E+02	ug/g	I	DUPLICATE	B110 Core Data	Cr +3	1.71E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S103	Cr				9.00E+03	g-moles	S		TRAC	Cr+3	1.71E+05	
c109	Chromium	9/1/92	B08T17	1.2	1.39E+02	ug/g	S	DUPLICATE RESULT	TCD	Cr+3	1.67E+05	
B110	Chromium	4/1/90	Core Composite 9	1.32	1.24E+02	ug/g	I	PRIMARY	B110 Core Data	Cr+3	1.64E+05	
S109	Cr				7.70E+03	g-moles	S		TRAC	Cr+3	1.62E+05	
A102	Cr	5/31/63	RAT-A102-5		0.0001	gm/gm	G	Sludge	Braun	Cr	1.60E+05	
T106	Cr				7.43E+02	g-moles	S		TRAC	Cr+3	1.43E+05	
C112	Cr				1.09E+02	g-moles	S		TRAC	Cr+3	1.42E+05	
B108	Cr				9.84E+02	g-moles	S		TRAC	Cr+3	1.35E+05	
BX109	Cr + + +				2.57E-03	moles/L	S		HTCE Inv.	Cr+3	1.34E+05	
B112	Cr				7.89E+02	g-moles	S		TRAC	Cr+3	1.32E+05	
C109	Cr + + +				2.35E-03	moles/L	S		HTCE Inv.	Cr+3	1.22E+05	
TX115	Cr				1.53E+02	g-moles	S		TRAC	Cr+3	1.17E+05	
S109	Cr + + +				2.24E-03	moles/L	S		HTCE Inv.	Cr+3	1.16E+05	
BX111	Cr + + +				2.21E-03	moles/L	S		HTCE Inv.	Cr+3	1.15E+05	
TY106	Cr	9/26/85	161C0000	1.43	78.5	ugm/gm	G	Sludge/Composite	Braun	Cr	1.12E+05	
TY106	Cr	9/26/85			1.12E-01	g/L	G	Sludge	Wastren	Cr+3	1.12E+05	
S106	Cr + + +				2.15E-03	moles/L	S		HTCE Inv.	Cr+3	1.12E+05	
C112	Cr + + +				2.11E-03	moles/L	S		HTCE Inv.	Cr+3	1.09E+05	
TY102	Cr	9/9/85	41XC0000	1.88	57.6	ugm/gm	G	Sludge/Composite	Braun	Cr	1.08E+05	
TY102	Cr	1/30/86	41XCXXXX	1.88	5.76E+01	ug/g	I	Core composite	RAW	Cr+3	1.08E+05	
TY102	Cr	1/30/86	41XCXXXX	1.88	4.09E-01	g/gal	I	Core composite	RAW	Cr+3	1.08E+05	
TY102	Cr	9/9/85			1.08E-01	g/L	K	Saltcake	Wastren	Cr+3	1.08E+05	
U106	Cr + + +				2.01E-03	moles/L	S		HTCE Inv.	Cr+3	1.04E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
U110	Cr	12/3/89	89-077		56	ugm/gm	G	Sludge	Braun	Cr	8.96E+04	
s104	Chromium	8/1/92	B08TL3	1.6	8.35E+01	ug/mL	S	PRIMARY RESULT	TCD	Cr+3	8.35E+04	
s104	Chromium	8/1/92	B08TL3		8.35E+01	ug/mL	S	PRIMARY RESULT	TCD	Cr+3	8.35E+04	
s104	Chromium	8/1/92	B08TL3	1.6	8.33E+01	ug/mL	S	DUPLICATE RESULT	TCD	Cr+3	8.33E+04	
s104	Chromium	8/1/92	B08TL3		8.33E+01	ug/mL	S	DUPLICATE RESULT	TCD	Cr+3	8.33E+04	
U103	Cr + + +				1.52E-03	moles/L	S		HTCE Inv.	Cr+3	7.90E+04	
S112	Cr				7.51E+03	g-moles	S		TRAC	Cr+3	7.42E+04	
s104	Chromium	8/1/92	B08TL3	1.6	7.06E+01	ug/mL	S	PRIMARY RESULT	TCD	Cr+3	7.06E+04	
s104	Chromium	8/1/92	B08TL3		7.06E+01	ug/mL	S	PRIMARY RESULT	TCD	Cr+3	7.06E+04	
BY110	Cr + + +				1.36E-03	moles/L	S		HTCE Inv.	Cr+3	7.06E+04	
B105	Cr + + +				1.34E-03	moles/L	S		HTCE Inv.	Cr+3	6.97E+04	
TY104	Cr	9/1/85	232SXXXX	1.85	6.70E+01	mg/L	I	core composite	RAW	Cr+3	6.70E+04	
S103	Cr + + +				1.23E-03	moles/L	S		HTCE Inv.	Cr+3	6.38E+04	
U108	Cr + + +				1.19E-03	moles/L	S		HTCE Inv.	Cr+3	6.19E+04	
U109	Cr + + +				1.11E-03	moles/L	S		HTCE Inv.	Cr+3	5.76E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TX112	Cr				2.08E+01	g-moles	S		TRAC	Cr + 3	5.71E+04	
C102	Cr	2/1/91	2		3.50E+01	mg/kg	S	water leach	RAW	Cr + 3	5.60E+04	
B110	Cr	6/21/90	90-0636		4.71E+01	ug/ml	G	Acid Results	RAW	Cr + 3	4.71E+04	
C102	Cr	2/1/91	1		2.90E+01	mg/kg	S	water leach	RAW	Cr + 3	4.64E+04	
U110	Chromium	12/1/89	Core 7 Segment 1	1.78	2.50E+01	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	4.45E+04	
B110	Cr	6/21/90	89-0977		4.18E+01	ug/ml	G	Acid Results	RAW	Cr + 3	4.18E+04	
B106	Cr				1.70E+02	g-moles	S		TRAC	Cr + 3	4.04E+04	
TY105	Cr	9/5/85		1.53	2.34E+01	uG/g	I	core composite	RAW	Cr + 3	3.58E+04	
B110	Cr	6/21/90	90-0639		3.58E+01	ug/ml	G	Acid Results	RAW	Cr + 3	3.58E+04	
TY103	Cr(3+)	10/1/79		1.5	1.80E-03	wt %	K	saltcake	RAW	Cr + 3	2.70E+04	
C102	Cr	1/21/88	E1XCOOXX		1.59E+01	PPM	S	Raw Acid	RAW	Cr + 3	2.54E+04	
B109	Cr				1.09E+02	g-moles	S		TRAC	Cr + 3	2.40E+04	
U110	Chromium	12/1/89	Core 7 Segment 1	1.78	1.20E+01	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	2.14E+04	
U110	Chromium	12/1/89	Core 14 Segment 1	1.5	1.30E+01	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.95E+04	
U110	Chromium	12/1/89	Core 14 Segment 1	1.5	1.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.95E+04	
U110	Chromium	12/1/89	Core Composite 8		1.20E+01	ug/g	I	PRIMARY	U110 Core Data	Cr + 3	1.92E+04	
SX103	Cr	9/17/76	RAT-SX103-3	0.84	0.002	wt.%	A	Salts	Braun	Cr	1.68E+04	
U110	Chromium	12/1/89	Core Composite 8		1.00E+01	ug/g	I	DUPLICATE	U110 Core Data	Cr + 3	1.60E+04	
TY106	Cr	9/4/85		1.31	7.58E+00	ug/g	I	core composite	RAW	Cr + 3	9.93E+03	
C106	Cr	5/19/86		1.22	6.20E+00	mg/L	I	Composite	RAW	Cr + 3	6.20E+03	
B110	Cr	6/21/90	90-2555		6.09E+00	ug/ml	G	EP#1 Results	RAW	Cr + 3	6.09E+03	
A102	Cr				1.30E+02	g-moles	S		TRAC	Cr + 3	6.07E+03	
B110	Cr	6/21/90			5.81E+00	ug/ml	G	EP#2 Results	RAW	Cr + 3	5.81E+03	
C102	Cr	1/21/88	E1XCOOXX		2.62E+00	PPM	S	Raw PARR	RAW	Cr + 3	4.19E+03	
TY105	Cr	9/1/85	61XCXXXX	1.53	3.57E+00	mg/L	I	core composite	RAW	Cr + 3	3.57E+03	
B101	Cr + + +				6.58E-05	moles/L	S		HTCE Inv.	Cr + 3	3.42E+03	
B110	Cr	6/21/90	90-2557		3.01E+00	ug/ml	G	EP#1 Result	RAW	Cr + 3	3.01E+03	
BY107	Cr + + +				5.49E-05	moles/L	S		HTCE Inv.	Cr + 3	2.85E+03	
C104	Cr				2.24E+01	g-moles	S		TRAC	Cr + 3	2.40E+03	
C102	Cr	2/1/91	2		1.74E+00	ug/mL	S	water leach	RAW	Cr + 3	1.74E+03	
C102	Cr	2/1/91	2		1.74E+00	ug/mL	S	water leach	RAW	Cr + 3	1.74E+03	
C102	Cr	2/1/91	1		1.46E+00	ug/mL	S	water leach	RAW	Cr + 3	1.46E+03	
C102	Cr	2/1/91	1		1.46E+00	ug/mL	S	water leach	RAW	Cr + 3	1.46E+03	
BX101	Cr				3.11E-01	g-moles	S		TRAC	Cr + 3	2.36E+02	
BX102	Cr				2.34E-02	g-moles	S		TRAC	Cr + 3	5.72E+00	
BX101	Cr + + +				4.57E-08	moles/L	S		HTCE Inv.	Cr + 3	2.38E+00	
C106	Cr + + +				3.45E-08	moles/L	S		HTCE Inv.	Cr + 3	1.79E+00	
A101	Cr				1.60E-04	g-moles	S		TRAC	Cr + 3	8.04E-03	
U101	Cr				5.58E-06	g-moles	S		TRAC	Cr + 3	1.24E-03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Single-Shell Tank Solids [Sketch ES-VAL-CC18]
 ASA Value: 6.91E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY112	Cr				1.15E-05	g-moles	S		TRAC	Cr+3	8.77E-04	
BY103	Cr				4.75E-05	g-moles	S		TRAC	Cr+3	6.09E-04	
BX105	Cr				2.20E-05	g-moles	S		TRAC	Cr+3	5.70E-04	
BX104	Cr				2.08E-05	g-moles	S		TRAC	Cr+3	5.38E-04	
BY106	Cr				1.35E-07	g-moles	S		TRAC	Cr+3	6.62E-05	
BY109	Cr				1.40E-06	g-moles	S		TRAC	Cr+3	4.99E-05	
BX103	Cr				2.65E-06	g-moles	S		TRAC	Cr+3	4.74E-05	
TX101	Cr				3.50E-07	g-moles	S		TRAC	Cr+3	1.60E-05	
TX117	Cr				4.60E-08	g-moles	S		TRAC	Cr+3	2.48E-06	
T101	Cr				1.13E-13	g-moles	S		TRAC	Cr+3	1.55E-09	
BY111	Cr				4.81E-13	g-moles	S		TRAC	Cr+3	8.25E-10	
U201	Cr				9.16E-13	g-moles	S		TRAC	Cr+3	7.30E-10	
TX116	Cr				5.14E-12	g-moles	S		TRAC	Cr+3	2.79E-10	
TX102	Cr				7.23E-14	g-moles	S		TRAC	Cr+3	7.09E-11	
BY102	Cr				2.12E-12	g-moles	S		TRAC	Cr+3	6.57E-11	
U203	Cr				6.82E-14	g-moles	S		TRAC	Cr+3	6.46E-11	
TX108	Cr				3.15E-13	g-moles	S		TRAC	Cr+3	6.44E-11	
U202	Cr				7.01E-14	g-moles	S		TRAC	Cr+3	6.33E-11	
U103	Cr				2.02E-13	g-moles	S		TRAC	Cr+3	2.41E-11	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A
 Cr+6 was not evaluated by WHC panel.

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BY102	Cr	11/20/90	R-8081		73700	ppm	P	Supernatant	RAW	Cr + 6	8.11E+07	
SX102	Cr	8/19/77	8992		0.17	moles/l	U	Unknown	Braun	Cr	8.84E+06	
SX102	Cr	8/19/77	8997 JS#15		0.17	M	L		RAW	Cr + 6	8.84E+06	
AX104	Cr	8/3/77	JS#8-AL#D-129		0.092	M	P	Supernatant	RAW	Cr + 6	4.78E+06	
AX104	Cr	8/3/77	JS#7-AL#D-78		0.059	M	P	Supernatant	RAW	Cr + 6	3.07E+06	
U103	Cr	4/16/76	RAT-U103-1	1.228	0.047	moles/l	P	Supernate	Braun	Cr	2.44E+06	
U103	Cr	4/16/76	RAT-U103-1	1.305	0.047	moles/l	P	Supernate	Braun	Cr	2.44E+06	
U103	Cr	4/16/76		1.305	0.047	M	P	Supernatant	RAW	Cr + 6	2.44E+06	
C106	Cr	4/1/90	RAT-C106-4A		1750	ugm/gm	U	Unknown	Braun	Cr	1.93E+06	
Preliminary ASA Value: 1.90E+06 ug/L												
TY104	Cr	8/12/85	232DOOOO	1.21	1890	mg/l	L	Liquor	Braun	Cr	1.89E+06	
BX104	Cr	2/14/86	71XDOOXX	1.31	1890	mg/l	L	Liquor	Braun	Cr	1.89E+06	
TY104	Cr	8/12/85			1.89	g/L	P	Supernate	Wastren	Cr + 6	1.89E+06	
TY104	Cr	8/6/85	232DXXXX	1.21	1890	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.89E+06	
TY104	Chromium	9/30/85	232DXXXX		1890	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.89E+06	
TY104	Chromium	9/30/85	232DXXXX		1890	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.89E+06	
TY104	Cr	8/6/85	241DOOOO	1.18	1660	mg/l	L	Liquor	Braun	Cr	1.66E+06	
TY104	Cr	8/6/85	241DXXXX	1.18	1660	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.66E+06	
TY104	Chromium	9/30/85	232DXXXX		1660	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.66E+06	
TY104	Chromium	9/30/85	241DXXXX		1660	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.66E+06	
C105	Cr	4/1/90	RAT-C105-4A		1400	ugm/gm	U	Unknown	Braun	Cr	1.54E+06	
T101	Cr	8/1/89			1.53	g/L	P	Supernate	Wastren	Cr + 6	1.53E+06	
T101	Cr	8/1/89	RAT-T101-1	1.2	0.0294	moles/l	P	Supernate	Braun	Cr	1.53E+06	
T101	Cr	8/1/89		1.2	0.0294	mol/l	F	Filtrate	RAW	Cr + 6	1.53E+06	
TY104	Cr	8/6/85	211DOOOO	1.16	1460	mg/l	L	Liquor	Braun	Cr	1.46E+06	
TY104	Cr	8/6/85	211DXXXX	1.16	1460	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.46E+06	
TY104	Chromium	9/30/85	211DXXXX		1460	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.46E+06	
TY104	Chromium	9/30/85	211DXXXX		1460	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.46E+06	
SX115	Cr (6 +)	9/16/64			1.42	g/l	L		RAW	Cr + 6	1.42E+06	
BX106	Cr	3/16/90	R6037	1.33	0.02314	M	P	Supernatant	RAW	Cr + 6	1.20E+06	
BX106	Cr	3/16/90	R-6037	1.33	0.0231	moles/l	P	Supernate	Braun	Cr	1.20E+06	
BX106	Cr	3/16/90			1.2	g/L	P	Supernate	Wastren	Cr + 6	1.20E+06	
A106	Cr	3/13/86	A2XDOOXX	1.36	1160	mg/l	L	Liquor	Braun	Cr	1.16E+06	
A106	Cr	3/13/86			1.16	g/L	L	Drainable Liquid	Wastren	Cr + 6	1.16E+06	
A106	Chromium	5/19/87	A2XDXXXX		1160	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.16E+06	
A106	Chromium	5/19/87	A2XDXXXX		1160	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.16E+06	
BY102	Cr	6/3/91	R-8091	1.41	800	ppm	P	Supernate	Braun	Cr	1.13E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Tank Waste Characterization Data as Evaluated by WHC panel.											
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte Information	ID
BY102	Cr	6/3/91	R-8091	1.41	800	ppm	P	Supernatant	RAW	Cr+6	1.13E+06
C105	Cr	4/11/86	C1XD00XX	1.23	1120	mg/l	L	Liquor	Braun	Cr	1.12E+06
C105	Chromium	5/19/87	C1XDXXXX		1120	mg/L	L	Drainable Liquor	RAW	Cr+6	1.12E+06
C105	Chromium	5/19/87	C1XDXXXX		1120	mg/L	L	Drainable Liquor	RAW	Cr+6	1.12E+06
BY109	Cr	6/3/91	R-8094	1.4	765	ppm	P	Supernate	Braun	Cr	1.07E+06
BY109	Cr	6/3/91	R-8094	1.4	765	ppm	P	Supernatant	RAW	Cr+6	1.07E+06
T204	Cr	12/4/78			1.07	g/L	L	Drainable Liquid	Wastren	Cr+6	1.07E+06
BY109	Cr	11/20/90	R8084	1.37	772	ppm	P	Supernatant	RAW	Cr+6	1.06E+06
BY102	Cr	6/3/91	R-8081	1.42	740	ppm	P	Supernate	Braun	Cr	1.05E+06
BY102	Cr	6/3/91	R-8081	1.42	740	ppm	P	Supernatant	RAW	Cr+6	1.05E+06
BY109	Cr	6/3/91	R-8084	1.3	780	ppm	P	Supernate	Braun	Cr	1.01E+06
BY109	Cr	6/3/91	R-8084	1.3	780	ppm	P	Supernatant	RAW	Cr+6	1.01E+06
BX110	Cr	3/16/90	R-6040	1.37	0.0187	moles/l	P	Supernate	Braun	Cr	9.72E+05
BX110	Cr	3/16/90	R6040	1.37	0.0187	M	P	Supernatant	RAW	Cr+6	9.72E+05
BX110	Cr	3/16/90			0.972	g/L	P	Supernate	Wastren	Cr+6	9.72E+05
BX104	Cr	2/26/86			0.925	g/L	L	Drainable Liquid	Wastren	Cr+6	9.25E+05
BX104	Cr	2/26/86	72XD00XX	1.21	924.6	mg/l	L	Liquor	Braun	Cr	9.25E+05
BY106	Cr	6/3/91	R-8083	1.46	590	ppm	P	Supernate	Braun	Cr	8.61E+05
BY106	Cr	6/3/91	R-8083	1.46	590	ppm	P	Supernatant	RAW	Cr+6	8.61E+05
A106	Cr	3/11/86	A1XD00XX	1.35	853	mg/l	L	Liquor	Braun	Cr	8.53E+05
A106	Chromium	5/19/87	A1XDXXXX		853	mg/L	L	Drainable Liquor	RAW	Cr+6	8.53E+05
A106	Chromium	5/19/87	A1XDXXXX		853	mg/L	L	Drainable Liquor	RAW	Cr+6	8.53E+05
BY106	Cr	6/3/91	R-8093	1.47	560	ppm	P	Supernate	Braun	Cr	8.23E+05
BY106	Cr	6/3/91	R-8093	1.47	560	ppm	P	Supernatant	RAW	Cr+6	8.23E+05
BY103	Cr	6/3/91	R-8088	1.45	543	ppm	P	Supernate	Braun	Cr	7.87E+05
BY103	Cr	6/3/91	R-8088	1.45	543	ppm	P	Supernatant	RAW	Cr+6	7.87E+05
BY106	Cr	11/20/90	R8083		574	ppm	P	Supernatant	RAW	Cr+6	6.31E+05
BY103	Cr	11/14/90			543	ppm	P	Supernatant	RAW	Cr+6	5.97E+05
T112	Cr	10/27/87			0.562	g/L	P	Supernate	Wastren	Cr+6	5.62E+05
T112	Cr	10/27/87	RAT-T112-1		0.0108	moles/l	P	Supernate	Braun	Cr	5.62E+05
T112	Cr	10/27/87			0.0108	M	P	Supernatant	RAW	Cr+6	5.62E+05
BY109	Cr	6/3/91			0.546	g/L	P	Supernate	Wastren	Cr+6	5.46E+05
BY102	Cr	6/3/91			0.521	g/L	P	Supernate	Wastren	Cr+6	5.21E+05
BY105	Cr	6/3/91	R-8082	1.38	370	ppm	P	Supernatant	RAW	Cr+6	5.11E+05
BY105	Cr	6/3/91	R-8082	1.38	370	ppm	P	Supernate	Braun	Cr	5.11E+05
BX111	Cr	3/16/90	R-6041	1.44	0.00914	moles/l	P	Supernate	Braun	Cr	4.75E+05
BX111	Cr	3/16/90	R6041	1.44	0.00914	M	P	Supernatant	RAW	Cr+6	4.75E+05
BX111	Cr	3/16/90			0.475	g/L	P	Supernate	Wastren	Cr+6	4.75E+05
BY105	Cr	6/3/91	R-8092	1.4	330	ppm	P	Supernatant	RAW	Cr+6	4.62E+05
BY105	Cr	6/3/91	R-8092	1.4	330	ppm	P	Supernate	Braun	Cr	4.62E+05

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Tank Waste Characterization Analyte Data by WHC panel.										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C110	Cr	6/3/91	R-8087	1.2	369	ppm	P	Supernate	Braun	Cr	4.43E+05	
C110	Cr	11/20/90	8087	1.2	369	ppm	p	supernate	RAW	Cr + 6	4.43E+05	
C107	Cr	6/3/91	R8086	1.14	367	PPM	P	supernatant	RAW	Cr + 6	4.18E+05	
C107	Cr	6/3/91	R-8046	1.14	367	ppm	P	Supernate	Braun	Cr	4.18E+05	
BY106	Cr	6/3/91			0.404	g/L	L	Drainable Liquid	Wastren	Cr + 6	4.04E+05	
c110	Chromium	4/23/92	B08VH6	1.18	394	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	3.94E+05	
c110	Chromium	4/23/92	B08VH6	1.18	394	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	3.94E+05	
C110	Cr	11/1/91	1	1.18	394	ug/ml	L	core 39 seg. 3	RAW	Cr + 6	3.94E+05	
c110	Chromium	4/23/92	B08VH6	1.18	391	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	3.91E+05	
c110	Chromium	4/23/92	B08VH6	1.18	391	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	3.91E+05	
C110	Cr	11/1/91	2	1.18	391	ug/ml	L	core 39 seg. 3	RAW	Cr + 6	3.91E+05	
BY105	Cr	11/20/90	R-8082		350	PPM	P	Supernatant	RAW	Cr + 6	3.85E+05	
BY103	Cr	6/3/91			0.374	g/L	L	Drainable Liquid	Wastren	Cr + 6	3.74E+05	
BX107	Cr	3/16/90			0.343	g/L	P	Supernate	Wastren	Cr + 6	3.43E+05	
BX107	Cr	3/16/90	R-6038	1.22	0.00659	moles/l	P	Supernate	Braun	Cr	3.43E+05	
BX107	Cr	3/16/90	R6038	1.22	0.00659	M	P	Supernatant	RAW	Cr + 6	3.43E+05	
A103	Cr	4/3/86	B2XD00XX	1.48	333	mg/l	L	Liquor	Braun	Cr	3.33E+05	
A103	Cr	4/3/86			0.333	g/L	L	Drainable Liquid	Wastren	Cr + 6	3.33E+05	
SX101	Cr	4/26/89			0.333	g/L	L	Drainable Liquid	Wastren	Cr + 6	3.33E+05	
A103	Chromium	5/19/87	B1XD00XD		333	mg/L	L	Drainable Liquor	RAW	Cr + 6	3.33E+05	
A103	Chromium	5/19/87	B1XD00XD		333	mg/L	L	Drainable Liquor	RAW	Cr + 6	3.33E+05	
SX101	Cr	4/26/89	R-4884	1.11	0.0064	moles/l	P	Supernate	Braun	Cr	3.33E+05	
SX101	Cr	2/22/90		1.11	0.0064	M	L	Liquid	RAW	Cr + 6	3.33E+05	
C107	Cr	6/3/91			0.322	g/L	L	Drainable Liquid	Wastren	Cr + 6	3.22E+05	
BX112	Cr	3/16/90			0.317	g/L	P	Supernate	Wastren	Cr + 6	3.17E+05	
BX112	Cr	3/16/90	R-6042	1.2	0.00609	moles/l	P	Supernate	Braun	Cr	3.17E+05	
BX112	Cr	3/16/90	R6042	1.2	0.00609	M	P	Supernatant	RAW	Cr + 6	3.17E+05	
t104	Chromium	8/26/92	B08TQ7	1.1	316	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	3.16E+05	
C102	Cr	4/1/90	RAT-C102-1		280	ugm/gm	U	Unknown	Braun	Cr	3.08E+05	
BX105	Cr	3/3/86	B1XD00XX	1.29	292	mg/l	L	Liquor	Braun	Cr	2.92E+05	
BX105	Chromium	5/19/87	B1XDXXXX		292	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.92E+05	
BX105	Chromium	5/19/87	B1XDXXXX		292	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.92E+05	
t107	Chromium	3/1/93	B08V58	1.2	275	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	2.75E+05	
t107	Chromium	3/1/93	B08V58	1.2	271	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	2.71E+05	
SX104	Cr	5/14/88		1.804	0.0052	M	L	Bottom Acid Leach	RAW	Cr + 6	2.70E+05	
A103	Cr	3/26/86	B1XD00XX	1.476	259	mg/l	L	Liquor	Braun	Cr	2.59E+05	
A103	Chromium	5/19/87	B1XD00XD		259	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.59E+05	
A103	Chromium	5/19/87	B1XD00XD		259	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.59E+05	
BY105	Cr	6/3/91			0.236	g/L	L	Drainable Liquid	Wastren	Cr + 6	2.36E+05	
c112	Chromium	3/1/92	B08DZ5	1.4	155	ug/g	L	DUPLICATE RESULT	TCD	Cr + 6	2.17E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Tank Waste Characterization Data										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c112	Chromium	3/1/92	B08DZ5	1.4	154.2	ug/g	L	PRIMARY RESULT	TCD	Cr + 6	2.16E+05	
c112	Chromium	3/1/92	B08DZ5	1.4	152.2	ug/g	L	PRIMARY RESULT	TCD	Cr + 6	2.13E+05	
c112	Chromium	3/1/92	B08DZ5	1.4	151.6	ug/g	L	DUPLICATE RESULT	TCD	Cr + 6	2.12E+05	
T107	Cr	8/1/89	RAT-T107-1	1.2	0.00408	moles/l	P	Supernate	Braun	Cr	2.12E+05	
T107	Cr	8/1/89		1.2	0.00408	M	P	supernatant	RAW	Cr + 6	2.12E+05	
T107	Cr	8/1/89			0.212	g/L	P	Supernate	Wastren	Cr + 6	2.12E+05	
AX102	Cr	11/14/88			0.208	g/L	P	Supernate	Wastren	Cr + 6	2.08E+05	
AX102	Cr	11/14/88	RAT-AX102-3		0.004	moles/l	P	Supernate	Braun	Cr	2.08E+05	
AX102	Cr	8/1/88			0.004	M	P	supernate	RAW	Cr + 6	2.08E+05	
BX105	Cr	3/4/86	82XDOOXX	1.29	205	mg/l	L	Liquor	Braun	Cr	2.05E+05	
BX105	Cr	3/4/86			0.205	g/L	P	Supernate	Wastren	Cr + 6	2.05E+05	
BX105	Chromium	5/19/87	B2XDXXXX		205	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.05E+05	
BX105	Chromium	5/19/87	B2XDXXXX		205	mg/L	L	Drainable Liquor	RAW	Cr + 6	2.05E+05	
SX104	Cr	5/14/88		1.482	0.0031	M	L	Top Acid Leach	RAW	Cr + 6	1.61E+05	
C201	CrO4	12/4/78			0.348	g/L	P	Supernate	Wastren	Cr + 6	1.56E+05	
SX104	Cr	5/14/88			0.156	g/L	L	Drainable Liquid	Wastren	Cr + 6	1.56E+05	
SX104	Cr	5/14/88	RAT-SX104-3	1.5	0.003	moles/l	P	Supernate	Braun	Cr	1.56E+05	
SX104	Cr	5/14/88		1.5	0.003	M	L		RAW	Cr + 6	1.56E+05	
c110	Chromium	4/23/92	B08VP9	1.1	153	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	1.53E+05	
c110	Chromium	4/23/92	B08VP9	1.1	153	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	1.53E+05	
c110	Chromium	4/23/92	B08VP9	1.1	153	ug/mL	L	DUPLICATE RESULT	TCD	Cr + 6	1.53E+05	
C110	Cr	11/1/91	2	1.1	153	ug/ml	L	core 38 seg. 4	RAW	Cr + 6	1.53E+05	
SX104	Cr	5/14/88		1.969	0.0029	M	L	Top Water Leach	RAW	Cr + 6	1.51E+05	
c112	Hexavalent Chromiu	Mar-92	B08DT5	1.1	136	ug/g	L		TCD	Cr + 6	1.50E+05	
c110	Chromium	4/23/92	B08VP9	1.1	147	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.47E+05	
c110	Chromium	4/23/92	B08VP9	1.1	147	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.47E+05	
c110	Chromium	4/23/92	B08VP9	1.1	147	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.47E+05	
C110	Cr	11/1/91	1	1.1	147	ug/ml	L	core 38 seg. 4	RAW	Cr + 6	1.47E+05	
C103	Cr	5/14/86	F2XDOOXX	1.08	143	mg/l	L	Liquor	Braun	Cr	1.43E+05	
C103	Chromium	5/19/87	F2XDXXXX		143	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.43E+05	
C103	Chromium	5/19/87	F2XDXXXX		143	mg/L	L	Drainable Liquor	RAW	Cr + 6	1.43E+05	
c112	Hexavalent Chromiu	Mar-92	B08DT5	1.1	125	ug/g	L		TCD	Cr + 6	1.38E+05	
c112	Hexavalent Chromiu	Mar-92	B08DZ5	1.4	93	ug/g	L		TCD	Cr + 6	1.30E+05	
c112	Hexavalent Chromiu	Mar-92	B08DZ5	1.4	93	ug/g	L		TCD	Cr + 6	1.30E+05	
SX104	Cr	5/14/88		1.734	0.0025	M	L	Bottom Water Leach	RAW	Cr + 6	1.30E+05	
c110	Chromium	4/23/92	B08VM5	1	120	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.20E+05	
c110	Chromium	4/23/92	B08VM5	1	120	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.20E+05	
c110	Chromium	4/23/92	B08VP9	1.1	120	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.20E+05	
c110	Chromium	4/23/92	B08VP9	1.1	120	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.20E+05	
c110	Chromium	4/23/92	B08VP9	1.1	120	ug/mL	L	PRIMARY RESULT	TCD	Cr + 6	1.20E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c110	Chromium	4/23/92	B08VH6	1.18	120	ug/mL	L	PRIMARY RESULT	TCD	Cr +6	1.20E+05	
c110	Chromium	4/23/92	B08VH6	1.18	120	ug/mL	L	PRIMARY RESULT	TCD	Cr +6	1.20E+05	
c110	Chromium	4/23/92	B08VM5	1	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VM5	1	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VP9	1.1	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VP9	1.1	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VP9	1.1	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VH6	1.18	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
c110	Chromium	4/23/92	B08VH6	1.18	118	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	1.18E+05	
AX104	Cr	9/15/77	148JS#29-AL#2984		0.00221	M	P	Supernatant	RAW	Cr +6	1.15E+05	
BX109	Cr	3/16/90	R-6039	1.34	0.00199	moles/l	P	Supernate	Braun	Cr	1.03E+05	
BX109	Cr	3/16/90	R6039	1.34	0.00199	M	P	Supernatant	RAW	Cr +6	1.03E+05	
BX109	Cr	3/16/90			0.103	g/L	P	Supernate	Wastren	Cr +6	1.03E+05	
C103	Cr	6/3/91	R-8108	1.07	81	ppm	P	Supernate	Braun	Cr	8.67E+04	
C103	Cr	4/27/90	8108	1.07	81	ppm	P	supernate	RAW	Cr +6	8.67E+04	
C103	Cr	6/3/91	R-8109	1.06	77	ppm	P	Supernate	Braun	Cr	8.16E+04	
A102	Cr	3/6/86	91XDOOXX	1.52	79.1	mg/l	L	Liquor	Braun	Cr	7.91E+04	
A102	Chromium	5/19/87	91XDXXXX		79.1	mg/L	L	Drainable Liquor	RAW	Cr +6	7.91E+04	
A102	Chromium	5/19/87	91XDXXXX		79.1	mg/L	L	Drainable Liquor	RAW	Cr +6	7.91E+04	
C103	Cr	6/3/91			0.0757	g/L	P	Supernate	Wastren	Cr +6	7.57E+04	
C102	Cr	6/3/91	R-8089	1.15	64	ppm	P	Supernate	Braun	Cr	7.36E+04	
C102	Cr	11/20/90	8089	1.15	64	ppm	P	supernate	RAW	Cr +6	7.36E+04	
C103	Cr	5/7/86	F1XDOOXX	1.11	66.6	mg/l	L	Liquor	Braun	Cr	6.66E+04	
C103	Chromium	5/19/87	F1XDXXXX		66.6	mg/L	L	Drainable Liquor	RAW	Cr +6	6.66E+04	
C103	Chromium	5/19/87	F1XDXXXX		66.6	mg/L	L	Drainable Liquor	RAW	Cr +6	6.66E+04	
A102	Cr	3/8/86	92XDOOXX	1.51	61	mg/l	L	Liquor	Braun	Cr	6.10E+04	
A102	Chromium	5/19/87	92XDXXXX		61	mg/L	L	Drainable Liquor	RAW	Cr +6	6.10E+04	
A102	Chromium	5/19/87	92XDXXXX		61	mg/L	L	Drainable Liquor	RAW	Cr +6	6.10E+04	
C102	Cr	6/3/91			0.0557	g/L	P	Supernate	Wastren	Cr +6	5.57E+04	
t107	Chromium	3/1/93	B08V16	1.02	45.6	ug/mL	L	PRIMARY RESULT	TCD	Cr +6	4.56E+04	
t107	Chromium	3/1/93	B08V16	1.02	45.6	ug/mL	L	PRIMARY RESULT	TCD	Cr +6	4.56E+04	
t107	Chromium	3/1/93	B08V16	1.02	45	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	4.50E+04	
t107	Chromium	3/1/93	B08V16	1.02	45	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	4.50E+04	
A102	Cr	3/14/89	R-4656	1.57	0.00082	moles/l	P	Supernate	Braun	Cr	4.26E+04	
A102	Cr	3/15/89		1.57	0.00082	M	L	Liquid	RAW	Cr +6	4.26E+04	
A102	Cr	3/14/89			0.0426	g/L	P	Supernate	Wastren	Cr +6	4.26E+04	
c110	Chromium	4/23/92	B08VM5	1	31.5	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	3.15E+04	
c110	Chromium	4/23/92	B08VM5	1	31.5	ug/mL	L	DUPLICATE RESULT	TCD	Cr +6	3.15E+04	
C110	Cr	11/1/91	2	1	31.5	ug/ml	L	core 37 seg. 3	RAW	Cr +6	3.15E+04	
c110	Chromium	4/23/92	B08VM5	1	31.2	ug/mL	L	PRIMARY RESULT	TCD	Cr +6	3.12E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Cr+6 was not evaluated by WHC panel.
 Tank Waste Characterization Sample Information

Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c110	Chromium	4/23/92	B08VM5	1	31.2	ug/mL	L	PRIMARY RESULT	TCD	Cr+6	3.12E+04	
C110	Cr	11/1/91	1	1	31.2	ug/ml	L	core 37 seg. 3	RAW	Cr+6	3.12E+04	
C110	Cr	6/3/91			0.0307	g/L	P	Supernate	Wastren	Cr+6	3.07E+04	
AX103	Cr				120	g-moles	L		TRAC	Cr+6	1.36E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
C106	Cr	5/19/86	G1XDOOXX	1.22	6.17	mg/l	L	Liquor	Braun	Cr	6.17E+03	
C106	Chromium	5/19/87	G1XDXXXX		6.17	mg/L	L	Drainable Liquor	RAW	Cr+6	6.17E+03	
C106	Chromium	5/19/87	G1XDXXXX		6.17	mg/L	L	Drainable Liquor	RAW	Cr+6	6.17E+03	
U102	Cr	3/1/76			0.00562	g/L	P	Supernate	Wastren	Cr+6	5.62E+03	
C105	Cr	5/19/87		1.23	1120	ug/l	L		RAW	Cr+6	1.12E+03	
A103	Cr				37.9	g-moles	L		TRAC	Cr+6	1.02E+03	
SX106	Cr				22.6	g-moles	L		TRAC	Cr+6	6.50E+02	
U107	Cr				8.14	g-moles	L		TRAC	Cr+6	2.86E+02	
U111	Cr				2.19	g-moles	L		TRAC	Cr+6	2.28E+02	
t107	Chromium	3/1/93	B08VB5	1.1	190	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	1.90E+02	
t107	Chromium	3/1/93	B08VB5	1.1	186	UG/L	L	PRIMARY RESULT	TCD	Cr+6	1.86E+02	
B103	Cr				0.693	g-moles	L		TRAC	Cr+6	1.06E+02	
C107	Cr				1.76	g-moles	L		TRAC	Cr+6	8.02E+01	
S108	Cr				1.21	g-moles	L		TRAC	Cr+6	2.76E+01	
SX104	Cr				0.442	g-moles	L		TRAC	Cr+6	1.76E+01	
S101	Cr				0.278	g-moles	L		TRAC	Cr+6	1.67E+01	
S111	Cr				0.541	g-moles	L		TRAC	Cr+6	1.27E+01	
S110	Cr				0.538	g-moles	L		TRAC	Cr+6	1.18E+01	
SX105	Cr				0.471	g-moles	L		TRAC	Cr+6	1.08E+01	
C106	Cr	4/14/87		1.22	6.2	uG/L	L		RAW	Cr+6	6.20E+00	
U102	Cr				0.0162	g-moles	L		TRAC	Cr+6	5.88E-01	
S106	Cr				0.0217	g-moles	L		TRAC	Cr+6	5.27E-01	
B109	Cr				0.000389	g-moles	L		TRAC	Cr+6	8.12E-02	
A106	Cr				3.81E-06	g-moles	L		TRAC	Cr+6	4.93E-04	
C104	Cr				3.06E-07	g-moles	L		TRAC	Cr+6	2.25E-05	
AX101	Cr				5.05E-09	g-moles	L		TRAC	Cr+6	9.14E-08	
S107	Cr				2.33E-10	g-moles	L		TRAC	Cr+6	3.10E-08	
S102	Cr				3.1E-10	g-moles	L		TRAC	Cr+6	1.15E-08	
SX101	Cr				1.25E-11	g-moles	L		TRAC	Cr+6	1.09E-09	
B108	Cr				1.84E-14	g-moles	L		TRAC	Cr+6	7.63E-11	
TX108	Cr				2.38E-13	g-moles	L		TRAC	Cr+6	5.11E-11	
BX110	Cr				3.64E-13	g-moles	L		TRAC	Cr+6	3.49E-11	
BX111	Cr				4.28E-13	g-moles	L		TRAC	Cr+6	3.17E-11	
BY109	Cr				1.83E-13	g-moles	L		TRAC	Cr+6	3.10E-11	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A

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Tank Waste Characterization Data as reported by WHC panel.										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TY102	Cr				1.24E-13	g-moles	L		TRAC	Cr + 6	2.70E-11	
TX109	Cr				7.81E-13	g-moles	L		TRAC	Cr + 6	2.67E-11	
TX111	Cr				7.62E-13	g-moles	L		TRAC	Cr + 6	2.66E-11	
TX112	Cr				1.27E-12	g-moles	L		TRAC	Cr + 6	2.61E-11	
TX110	Cr				9.8E-13	g-moles	L		TRAC	Cr + 6	2.61E-11	
B202	Cr				5.01E-14	g-moles	L		TRAC	Cr + 6	2.60E-11	
T102	Cr				2.84E-14	g-moles	L		TRAC	Cr + 6	2.60E-11	
B204	Cr				9.37E-14	g-moles	L		TRAC	Cr + 6	2.60E-11	
T203	Cr				6.96E-14	g-moles	L		TRAC	Cr + 6	2.59E-11	
T202	Cr				3.97E-14	g-moles	L		TRAC	Cr + 6	2.59E-11	
B203	Cr				9.45E-14	g-moles	L		TRAC	Cr + 6	2.59E-11	
T104	Cr				8.6E-13	g-moles	L		TRAC	Cr + 6	2.52E-11	
S104	Cr				7.83E-14	g-moles	L		TRAC	Cr + 6	2.32E-11	
BY101	Cr				5.65E-13	g-moles	L		TRAC	Cr + 6	2.29E-11	
BX112	Cr				2.26E-13	g-moles	L		TRAC	Cr + 6	2.28E-11	
T101	Cr				2.13E-13	g-moles	L		TRAC	Cr + 6	2.25E-11	
S105	Cr				4.61E-13	g-moles	L		TRAC	Cr + 6	1.87E-11	
BY108	Cr				3.78E-13	g-moles	L		TRAC	Cr + 6	1.50E-11	
AX102	Cr				5.68E-14	g-moles	L		TRAC	Cr + 6	1.47E-11	
BY110	Cr				5.12E-13	g-moles	L		TRAC	Cr + 6	1.40E-11	
BY104	Cr				5.76E-13	g-moles	L		TRAC	Cr + 6	1.37E-11	
TX113	Cr				5.37E-13	g-moles	L		TRAC	Cr + 6	1.33E-11	
BY106	Cr				5.73E-13	g-moles	L		TRAC	Cr + 6	1.31E-11	
BY111	Cr				5.79E-13	g-moles	L		TRAC	Cr + 6	1.29E-11	
B104	Cr				9.5E-14	g-moles	L		TRAC	Cr + 6	1.29E-11	
BY112	Cr				1.06E-13	g-moles	L		TRAC	Cr + 6	1.12E-11	
TX105	Cr				4.63E-13	g-moles	L		TRAC	Cr + 6	1.12E-11	
BY105	Cr				4.5E-13	g-moles	L		TRAC	Cr + 6	1.08E-11	
BY107	Cr				2.09E-13	g-moles	L		TRAC	Cr + 6	9.25E-12	
BX107	Cr				2.47E-13	g-moles	L		TRAC	Cr + 6	9.18E-12	
B105	Cr				1.06E-13	g-moles	L		TRAC	Cr + 6	7.50E-12	
T103	Cr				1E-14	g-moles	L		TRAC	Cr + 6	5.89E-12	
TY101	Cr				4.33E-14	g-moles	L		TRAC	Cr + 6	5.66E-12	
B102	Cr				1.85E-14	g-moles	L		TRAC	Cr + 6	5.31E-12	
TY103	Cr				5.81E-14	g-moles	L		TRAC	Cr + 6	5.28E-12	
TX115	Cr				2.16E-13	g-moles	L		TRAC	Cr + 6	4.76E-12	
TY104	Cr				1.3E-14	g-moles	L		TRAC	Cr + 6	3.91E-12	
C112	Cr				2.27E-14	g-moles	L		TRAC	Cr + 6	3.16E-12	
T109	Cr				2.69E-14	g-moles	L		TRAC	Cr + 6	2.51E-12	
B107	Cr				2.9E-14	g-moles	L		TRAC	Cr + 6	2.47E-12	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Liquids [Sketch ES-VAL-CC19]
 ASA Value: N/A
 Cr+6 was not evaluated by WHC panel.

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B106	Cr				1.41E-14	g-moles	L		TRAC	Cr + 6	2.38E-12	
TX116	Cr				4.36E-14	g-moles	L		TRAC	Cr + 6	1.58E-12	
C109	Cr				5.96E-15	g-moles	L		TRAC	Cr + 6	1.40E-12	
U109	Cr				4.63E-14	g-moles	L		TRAC	Cr + 6	1.40E-12	
TX114	Cr				5.67E-14	g-moles	L		TRAC	Cr + 6	1.21E-12	
TX106	Cr				3.95E-14	g-moles	L		TRAC	Cr + 6	1.20E-12	
C111	Cr				3.1E-15	g-moles	L		TRAC	Cr + 6	7.80E-13	
TX117	Cr				1.77E-14	g-moles	L		TRAC	Cr + 6	6.55E-13	
U106	Cr				7.11E-15	g-moles	L		TRAC	Cr + 6	4.30E-13	
T108	Cr				1.31E-15	g-moles	L		TRAC	Cr + 6	4.20E-13	
BX109	Cr				5.87E-15	g-moles	L		TRAC	Cr + 6	4.01E-13	
BX108	Cr				5.3E-16	g-moles	L		TRAC	Cr + 6	3.41E-13	
C101	Cr				9.61E-17	g-moles	L		TRAC	Cr + 6	1.78E-13	
TX103	Cr				2.6E-15	g-moles	L		TRAC	Cr + 6	1.75E-13	
U110	Cr				2.67E-16	g-moles	L		TRAC	Cr + 6	9.95E-14	
C108	Cr				2.74E-17	g-moles	L		TRAC	Cr + 6	7.31E-14	
TX102	Cr				8.94E-16	g-moles	L		TRAC	Cr + 6	3.83E-14	
TY105	Cr				2.65E-16	g-moles	L		TRAC	Cr + 6	1.30E-14	
U105	Cr				7.68E-17	g-moles	L		TRAC	Cr + 6	2.60E-15	
U108	Cr				1.66E-17	g-moles	L		TRAC	Cr + 6	6.76E-16	
A105	Cr				6.08E-19	g-moles	L		TRAC	Cr + 6	4.58E-16	
U103	Cr				6.11E-18	g-moles	L		TRAC	Cr + 6	2.48E-16	
TX104	Cr				4.24E-22	g-moles	L		TRAC	Cr + 6	8.56E-20	
C110	Cr				3.69E-23	g-moles	L		TRAC	Cr + 6	2.45E-21	
B101	Cr				1.43E-23	g-moles	L		TRAC	Cr + 6	2.10E-21	
TY106	Cr				1.65E-24	g-moles	L		TRAC	Cr + 6	1.59E-21	
BX101	Cr				4.99E-31	g-moles	L		TRAC	Cr + 6	2.45E-28	
T107	Cr				6.97E-31	g-moles	L		TRAC	Cr + 6	5.56E-29	
C102	Cr				4.93E-31	g-moles	L		TRAC	Cr + 6	2.59E-29	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Solids [Sketch ES-VAL-CC20]
 ASA Value: N/A

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After additional review the WHC panel concluded that Cr +6 probably does not exist in the solid phase. No final ASA value was specified.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
S111	CrO4	8/25/78	1003/1004-C	1.86	0.8	wt. %	S	Solids	Braun	Cr +6	1.49E+07	
S111	CrO4	8/25/78	1009-C	1.46	0.6	wt. %	S	Solids	Braun	Cr +6	8.76E+06	
S111	CrO4	8/25/78	1009-C	1.44	0.6	wt. %	S	Solids	Braun	Cr +6	8.64E+06	
U203	CrO4	12/4/78			14.4	g/L	G	Sludge	Wastren	Cr +6	6.46E+06	
S111	CrO4	8/25/78	1001-C	1.27	0.5	wt. %	S	Solids	Braun	Cr +6	6.35E+06	
b201	Hexavalent Chromium	Aug-91	B08F50	1.6	770	ug/g	S		TCD	Cr +6	1.23E+06	
b202	Hexavalent Chromium	Aug-91	B0BC10	1.6	726	ug/g	S		TCD	Cr +6	1.16E+06	
b201	Hexavalent Chromium	Aug-91	B08F50	1.6	710	ug/g	S		TCD	Cr +6	1.14E+06	
B203	CrO4	12/4/78	2782	1.09	0.1	wt. %	G	Sludge	Braun	Cr +6	1.09E+06	
C204	CrO4	12/4/78	T-1914	1.07	0.1	wt. %	G	Sludge	Braun	Cr +6	1.07E+06	
SX102	Cr2O7	4/28/75		1.88	0.01	mol/l	S	Solids	RAW	Cr +6	1.04E+06	
b202	Hexavalent Chromium	Aug-91	B0BC10	1.6	630	ug/g	S		TCD	Cr +6	1.01E+06	
t102	Hexavalent Chromium	Mar-93	B0B732	1.3167	745	ug/g	S		TCD	Cr +6	9.81E+05	
t102	Hexavalent Chromium	Mar-93	B0B732	1.3167	741	ug/g	S		TCD	Cr +6	9.76E+05	
b202	Hexavalent Chromium	Aug-91	B0BC04	1.6	580	ug/g	S		TCD	Cr +6	9.28E+05	
b202	Hexavalent Chromium	Aug-91	B0BC11	1.6	570	ug/g	S		TCD	Cr +6	9.12E+05	
B204	CrO4	12/4/78	1974	1.14	0.08	wt. %	G	Sludge	Braun	Cr +6	9.12E+05	
b202	Hexavalent Chromium	Aug-91	B0BC05	1.6	552	ug/g	S		TCD	Cr +6	8.83E+05	
b202	Hexavalent Chromium	Aug-91	B0BC04	1.6	526	ug/g	S		TCD	Cr +6	8.42E+05	
B201	CrO4	12/4/78	1898	1.37	0.05	wt. %	G	Sludge	Braun	Cr +6	6.85E+05	
B204	CrO4	12/4/78			0.912	g/L	G	Sludge	Wastren	Cr +6	4.09E+05	
C201	CrO4	12/4/78	T-3421	1.16	0.03	wt. %	G	Sludge	Braun	Cr +6	3.48E+05	
b111	Hexavalent Chromium	Oct-91	B08XC0	1.6	187	ug/g	S		TCD	Cr +6	2.99E+05	
B201	CrO4	12/4/78			0.658	g/L	G	Sludge	Wastren	Cr +6	2.95E+05	
b111	Hexavalent Chromium	Oct-91	B08XC0	1.6	182	ug/g	S		TCD	Cr +6	2.91E+05	
b111	Hexavalent Chromium	Oct-91	B08XC3	1.6	165	ug/g	S		TCD	Cr +6	2.64E+05	
b111	Hexavalent Chromium	Oct-91	B08XC1	1.6	162	ug/g	S		TCD	Cr +6	2.59E+05	
b111	Hexavalent Chromium	Oct-91	B08XC3	1.6	158	ug/g	S		TCD	Cr +6	2.53E+05	
b111	Hexavalent Chromium	Oct-91	B08XC1	1.6	152	ug/g	S		TCD	Cr +6	2.43E+05	
b111	Hexavalent Chromium	Oct-91	B08XC2	1.6	143	ug/g	S		TCD	Cr +6	2.29E+05	
b111	Hexavalent Chromium	Oct-91	B08XC2	1.6	140	ug/g	S		TCD	Cr +6	2.24E+05	
c112	Hexavalent Chromium	Mar-92	B08DW5	1.6	90	ug/g	S		TCD	Cr +6	1.44E+05	
c112	Hexavalent Chromium	Mar-92	B08DW5	1.6	60	ug/g	S		TCD	Cr +6	9.60E+04	
c109	Hexavalent Chromium	Sep-92	B08T63	1.6	48	ug/g	S		TCD	Cr +6	7.68E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Single-Shell Tank Solids [Sketch ES-VAL-CC20]
 ASA Value: N/A

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
c109	Hexavalent Chromium	Sep-92	B08T63	1.6	46	ug/g	S		TCD	Cr + 6	7.36E + 04	
c109	Hexavalent Chromium	Sep-92	B08T69	1.6	37	ug/g	S		TCD	Cr + 6	5.92E + 04	
c109	Hexavalent Chromium	Sep-92	B08T69	1.6	36	ug/g	S		TCD	Cr + 6	5.76E + 04	
t107	Hexavalent Chromium	Mar-93	B08VD2	1.6	18.5	ug/g	S		TCD	Cr + 6	2.96E + 04	
t107	Hexavalent Chromium	Mar-93	B08VD2	1.6	18.4	ug/g	S		TCD	Cr + 6	2.94E + 04	
t107	Hexavalent Chromium	Mar-93	B08VB9	1.19	19.5	ug/g	S		TCD	Cr + 6	2.32E + 04	
t107	Hexavalent Chromium	Mar-93	B08VB9	1.19	19.2	ug/g	S		TCD	Cr + 6	2.28E + 04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Dysprosium Single-Shell Tank Solids [Sketch ES-VAL-CC22]
ASA Value: N/A

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Dysprosium	4/1/90	Core Composite 9	1.32	104.482	ug/g	I	PRIMARY	B110 Core Data	Dy	1.38E+05	
B110	Dysprosium	4/1/90	CORE 1 SEGMENT 5	1.3	89.42598	ug/g	I	DUPLICATE	B110 Core Data	Dy	1.16E+05	
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 4	1.3	87.30357	ug/g	I		B110 Core Data	Dy	1.13E+05	
B110	Dysprosium	4/1/90	Core Composite 9	1.32	72.14235	ug/g	I	DUPLICATE	B110 Core Data	Dy	9.52E+04	
B110	Dysprosium	4/1/90	Core Composite 4	1.36	63.61044	ug/g	I	PRIMARY	B110 Core Data	Dy	8.65E+04	
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 5	1.3	59.38948	ug/g	I		B110 Core Data	Dy	7.72E+04	
B110	Dysprosium	4/1/90	Core Composite 18	1.37	55.59378	ug/g	I	DUPLICATE	B110 Core Data	Dy	7.62E+04	
B110	Dysprosium	4/1/90	Core Composite 18	1.37	52.34155	ug/g	I	PRIMARY	B110 Core Data	Dy	7.17E+04	
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 4	1.3	52.38214	ug/g	I		B110 Core Data	Dy	6.81E+04	
c112	Dysprosium	3/1/92	B08DN8	1.6	42	ug/g	S	DUPLICATE RESULT	TCD	Dy	6.72E+04	
Preliminary ASA Value: 6.7E+04 ug/L												
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 2	1.3	51.19224	ug/g	I	DUPLICATE	B110 Core Data	Dy	6.65E+04	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	46.23434	ug/g	I	DUPLICATE	B110 Core Data	Dy	6.29E+04	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	46.23434	ug/g	I	PRIMARY	B110 Core Data	Dy	6.29E+04	
c112	Dysprosium	3/1/92	B08DN8	1.6	38	ug/g	S	PRIMARY RESULT	TCD	Dy	6.08E+04	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	43.99687	ug/g	I	PRIMARY	B110 Core Data	Dy	5.98E+04	
B110	Dysprosium	4/1/90	Core Composite 4	1.36	43.86927	ug/g	I	DUPLICATE	B110 Core Data	Dy	5.97E+04	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	38.93418	ug/g	I	PRIMARY	B110 Core Data	Dy	5.30E+04	
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 5	1.3	40.38484	ug/g	I		B110 Core Data	Dy	5.25E+04	
B110	Dysprosium	4/1/90	Core Composite 10	1.34	34.23234	ug/g	I	DUPLICATE	B110 Core Data	Dy	4.59E+04	
B110	Dysprosium	4/1/90	CORE 4 SEGMENT 2	1.3	35.02627	ug/g	I	PRIMARY	B110 Core Data	Dy	4.55E+04	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	31.63402	ug/g	I	DUPLICATE	B110 Core Data	Dy	4.30E+04	
B110	Dysprosium	4/1/90	Core Composite 10	1.34	24.45167	ug/g	I	PRIMARY	B110 Core Data	Dy	3.28E+04	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	14.60032	ug/g	I	DUPLICATE	B110 Core Data	Dy	1.99E+04	
B110	Dysprosium	4/1/90	Core Composite 2	1.33	14.08064	ug/g	I	DUPLICATE	B110 Core Data	Dy	1.87E+04	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	7.332812	ug/g	I	DUPLICATE	B110 Core Data	Dy	9.97E+03	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	4.888541	ug/g	I	PRIMARY	B110 Core Data	Dy	6.65E+03	
B110	Dysprosium	4/1/90	Core Composite 1	1.36	4.866772	ug/g	I	PRIMARY	B110 Core Data	Dy	6.62E+03	
c112	Dysprosium	3/1/92	B08DY1	2	2.6	ug/g	S	DUPLICATE RESULT	TCD	Dy	5.20E+03	
c112	Dysprosium	3/1/92	B08DY1	2	2.6	ug/g	S	DUPLICATE RESULT	TCD	Dy	5.20E+03	
c112	Dysprosium	3/1/92	B08DY1	2	2.6	ug/g	S	PRIMARY RESULT	TCD	Dy	5.20E+03	
c112	Dysprosium	3/1/92	B08DY1	2	2.3	ug/g	S	PRIMARY RESULT	TCD	Dy	4.60E+03	
c112	Dysprosium	3/1/92	B08DY1	2	2	ug/g	S	DUPLICATE RESULT	TCD	Dy	4.00E+03	
c112	Dysprosium	3/1/92	B08DY1	2	1.9	ug/g	S	PRIMARY RESULT	TCD	Dy	3.80E+03	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	2.444271	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.32E+03	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	2.444271	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.32E+03	
B110	Dysprosium	4/1/90	Core Composite 3	1.36	2.444271	ug/g	I	PRIMARY	B110 Core Data	Dy	3.32E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Dysprosium Single-Shell Tank Solids [Sketch ES-VAL-CC22]
 ASA Value: N/A

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Dyprosium	4/1/90	Core Composite 9	1.32	2.487667	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 9	1.32	2.487667	ug/g	I	PRIMARY	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	PRIMARY	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 10	1.34	2.445167	ug/g	I	PRIMARY	B110 Core Data	Dy	3.28E+03	
B110	Dyprosium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.12E+03	
B110	Dyprosium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	DUPLICATE	B110 Core Data	Dy	3.12E+03	
B110	Dyprosium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	PRIMARY	B110 Core Data	Dy	3.12E+03	
B110	Dyprosium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	PRIMARY	B110 Core Data	Dy	3.12E+03	
B110	Dyprosium	4/1/90	Core Composite 2	1.33	2.346773	ug/g	I	PRIMARY	B110 Core Data	Dy	3.12E+03	
B110	Dyprosium	4/1/90	Core Composite 4	1.36	2.193463	ug/g	I	DUPLICATE	B110 Core Data	Dy	2.98E+03	
B110	Dyprosium	4/1/90	Core Composite 4	1.36	2.193463	ug/g	I	PRIMARY	B110 Core Data	Dy	2.98E+03	
B110	Dyprosium	4/1/90	Core Composite 4	1.36	2.193463	ug/g	I	PRIMARY	B110 Core Data	Dy	2.98E+03	
B110	Dyprosium	4/1/90	CORE 9 SEGMENT 5	1.24	2.363323	ug/g	I		B110 Core Data	Dy	2.93E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1.6	ug/g	S	PRIMARY RESULT	TCD	Dy	2.56E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1.6	ug/g	S	PRIMARY RESULT	TCD	Dy	2.56E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1.4	ug/g	S	DUPLICATE RESULT	TCD	Dy	2.24E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1.4	ug/g	S	DUPLICATE RESULT	TCD	Dy	2.24E+03	
B110	Dyprosium	4/1/90	Core Composite 18	1.37	1.306754	ug/g	I	PRIMARY	B110 Core Data	Dy	1.79E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1.1	ug/g	S	DUPLICATE RESULT	TCD	Dy	1.76E+03	
c112	Dysprosium	3/1/92	B08DM7	1.6	1	ug/g	S	DUPLICATE RESULT	TCD	Dy	1.60E+03	
c112	Dysprosium	3/1/92	B08DN6	1.3	1.2	ug/g	S	PRIMARY RESULT	TCD	Dy	1.56E+03	
c112	Dysprosium	3/1/92	B08DN6	1.3	1	ug/g	S	DUPLICATE RESULT	TCD	Dy	1.30E+03	
B110	Dyprosium	4/1/90	Core Composite 18	1.37	0.822072	ug/g	I	DUPLICATE	B110 Core Data	Dy	1.13E+03	
B110	Dyprosium	4/1/90	Core Composite 18	1.37	0.742154	ug/g	I	PRIMARY	B110 Core Data	Dy	1.02E+03	
B110	Dyprosium	4/1/90	Core Composite 18	1.37	0.128917	ug/g	I	DUPLICATE	B110 Core Data	Dy	1.77E+02	
Minimum Plot Limit: 1.00E+02 ug/L												

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Mercury Single-Shell Tank Liquids [Sketch ES-VAL-CC23]
ASA Value: 3.07E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX104	Hg	8/3/77	JS#7-AL#D-78		0.528	M	P	Supernatant	RAW	Hg	1.06E+08	9
TX109	Hg	2/2/76	T-2034	1.386	0.0137	moles/l	P	Supernate	Braun	Hg	2.75E+06	7
TX109	Hg	2/2/76	T-2034	1.386	1.37E-02	M	L	brown	RAW	Hg	2.75E+06	7
SX106	Hg	4/18/78	8301	1.33	0.0115	moles/l	P	Supernate	Braun	Hg	2.31E+06	#
SX106	Hg	4/18/78	8301	1.37	0.0115	moles/l	P	Supernate	Braun	Hg	2.31E+06	#
SX106	Hg	4/18/78	8301	1.37	0.0115	M	P	Supernatant	RAW	Hg	2.31E+06	#
AX104	Hg	9/15/77	148JS#29-AL#2984		0.00764	M	P	Supernatant	RAW	Hg	1.53E+06	#
C104	Hg	12/18/75	T-769	1.16	0.00324	moles/l	P	Supernate	Braun	Hg	6.50E+05	#
C104	Hg	12/18/75	T-769	1.16	0.00324	M	L		RAW	Hg	6.50E+05	#
S102	Hg	1/20/76	T-1683	1.39	0.00222	moles/l	P	Supernate	Braun	Hg	4.45E+05	7
TX103	Hg	4/9/76	T-4138	1.43	0.0017	moles/l	P	Supernate	Braun	Hg	3.41E+05	#
ASA Value: 3.07E+05 ug/L												
S111	Hg	8/25/78	1009-C	1.46	0.00153	moles/l	P	Supernate	Braun	Hg	3.07E+05	*
S111	Hg	8/25/78		1.46	0.00153	M	P	Supernate	RAW	Hg	3.07E+05	*
S111	Hg	8/25/78	RAT-S111-3	1.5	0.00141	moles/l	P	Supernate	Braun	Hg	2.83E+05	
S111	Hg	8/25/78		1.5	0.00141	M	P	Supernate	RAW	Hg	2.83E+05	
TX102	Hg	2/2/76	T-1990	1.456	0.00126	moles/l	P	Supernate	Braun	Hg	2.53E+05	
TX102	Hg	2/2/76	T-1990	1.456	0.00126	M	L	dark brown	RAW	Hg	2.53E+05	
BX105	Hg	2/11/76	T-2325	1.369	0.00116	M	L		RAW	Hg	2.33E+05	
TX118	Hg	12/22/75	T-864	1.31	0.00111	moles/l	P	Supernate	Braun	Hg	2.23E+05	
TX118	Hg	12/15/75	T-681	1.31	0.001101	moles/l	P	Supernate	Braun	Hg	2.21E+05	
TX109	Hg	12/28/75	T-1035	1.398	0.00102	moles/l	P	Supernate	Braun	Hg	2.05E+05	
TX109	Hg	12/28/75	T-1035	1.398	1.02E-03	M	L	dark brown	RAW	Hg	2.05E+05	
TX118	Hg	12/15/76	T-681	1.308	0.00101	M	L	dark green	RAW	Hg	2.03E+05	
TX103	Hg	3/1/76	T-2955	1.4	0.000834	moles/l	P	Supernate	Braun	Hg	1.67E+05	
TX103	Hg	3/1/76	T-2955	1.4	0.000834	M	O	30% Solids light green	RAW	Hg	1.67E+05	
S102	Hg	2/17/76	T-2395	1.25	0.000804	M	L	No solids	RAW	Hg	1.61E+05	
TX108	Hg	2/2/76	T-1989	1.386	0.000739	moles/l	P	Supernate	Braun	Hg	1.48E+05	
TX108	Hg	2/2/76	T-1984	1.386	7.39E-04	M	L	yellow	RAW	Hg	1.48E+05	
S102	Hg	11/19/75	T-9952	1.29	0.000724	moles/l	P	Supernate	Braun	Hg	1.45E+05	
TX104	Hg	9/17/76	T-4391	1.40	4.71E-04	M	O	dark brown	RAW	Hg	9.45E+04	
Preliminary ASA Value: 8.40E+04 ug/L												
TX104	Hg	4/19/76	T-4391	1.4	0.000417	moles/l	P	Supernate	Braun	Hg	8.36E+04	
TX104	Hg	4/19/76			0.0836	g/L	P	Supernate	Wastren	Hg	8.36E+04	
C201	Hg	12/4/78			0.0812	g/L	P	Supernate	Wastren	Hg	8.12E+04	
C104	Hg	12/5/75	T-374	1.137	0.000236	moles/l	P	Supernate	Braun	Hg	4.73E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Liquids [Sketch ES-VAL-CC23]
 ASA Value: 3.07E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
C104	Hg	12/5/75	T-374	1.137	0.000236	M	O		RAW	Hg	4.73E+04	
T204	Hg	12/4/78			0.0428	g/L	L	Drainable Liquid	Wastren	Hg	4.28E+04	
C104	Hg	12/1/75	T-225	1.164	0.000148	moles/l	P	Supernate	Braun	Hg	2.97E+04	
C104	Hg	12/1/75	T-225	1.164	0.000148	M	L		RAW	Hg	2.97E+04	
C106	Hg	3/15/76	T-3294	1.16	0.000102	moles/l	P	Supernate	Braun	Hg	2.05E+04	
C106	Hg	3/15/76	T3294	1.162	0.000102	M	O		RAW	Hg	2.05E+04	
c112	Mercury	3/1/92	B08DZ5	1.4	1.4	ug/g	L	DUPLICATE RESULT	TCD	Hg	1.96E+03	
c112	Mercury	3/1/92	B08DZ5	1.4	1.3	ug/g	L	PRIMARY RESULT	TCD	Hg	1.82E+03	
C110	Hg	11/20/90	8087	1.2	1	ppm	p	supernate	RAW	Hg	1.20E+03	
C110	Hg	6/3/91	R-8087	1.2	1.05	mg/l	P	Supernate	Braun	Hg	1.05E+03	
C110	Hg	6/3/91			0.00105	g/L	P	Supernate	Wastren	Hg	1.05E+03	
BX109	Hg	3/16/90			0.000247	g/L	P	Supernate	Wastren	Hg	2.47E+02	
BX109	Hg	3/16/90	R-6039	1.34	1.23E-06	moles/l	P	Supernate	Braun	Hg	2.47E+02	
BX109	Hg	3/16/90	R6039	1.34	1.23E-06	M	P	Supernatant	RAW	Hg	2.47E+02	
c110	Mercury	4/23/92	B08VM5	1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VM5	1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VH6	1.18	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VH6	1.18	0.11	ug/mL	L	DUPLICATE RESULT	TCD	Hg	1.10E+02	
c110	Mercury	4/23/92	B08VM5	1	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VM5	1	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VP9	1.1	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VH6	1.18	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
c110	Mercury	4/23/92	B08VH6	1.18	0.102	ug/mL	L	PRIMARY RESULT	TCD	Hg	1.02E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
BX111	Hg	3/16/90			0.0000261	g/L	P	Supernate	Wastren	Hg	2.61E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
 ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX104	Hg	9/15/77			2.89E+02	g/L	G	Sludge	Wastren	Hg	2.89E+08	9
AX104	Hg	9/15/77	148JS#25 AL#2385		1.44E+00	M	S		RAW	Hg	2.89E+08	9
AX104	Hg	9/15/77	JS-25		1.44	moles/l	G	Sludge	Braun	Hg	2.89E+08	9
ASA Value: 5.42E+07 ug/L												
C107	Hg	8/2/77			2.70E-01	M	S	Solids	RAW	Hg	5.42E+07	*
C107	Hg	8/2/77	T-8110-13		0.27	moles/l	G	Sludge	Braun	Hg	5.42E+07	30
B203	Hg	1/7/83			4.81E+01	g/L	G	Sludge	Wastren	Hg	4.81E+07	
B203	Hg	1/7/83	RAT-B203-1		2.75	wt. %	G	Sludge	Braun	Hg	4.40E+07	
TY104	Hg(2+)	9/18/80		1.57	2.56E+00	wt. %	S	H2O INSOLUBLE	RAW	Hg	4.02E+07	
TY104	Hg	9/18/80	RAT-TY104-2	1.57	2.56	wt. %	G	Sludge	Braun	Hg	4.02E+07	
TY104	Hg	12/20/79	RAT-TY104-1	1.41	2.56	wt. %	G	Sludge	Braun	Hg	3.61E+07	
TY104	Hg(2+)	8/22/79		1.41	2.56	wt. %	S	Solid	RAW	Hg	3.61E+07	
TY106	Hg	12/20/79	RAT-TY106-1	1.54	2.09	wt. %	G	Sludge	Braun	Hg	3.22E+07	
C110	Hg	6/10/77	9501		1.30E-01	M	G	Sludge	RAW	Hg	2.61E+07	
C107	Hg	8/2/77	T-8110-14		0.13	moles/l	G	Sludge	Braun	Hg	2.61E+07	
C110	Hg	8/31/77	T-9501-17		0.13	moles/l	G	Sludge	Braun	Hg	2.61E+07	
C104	Hg	8/23/77	9172		1.10E-01	M	G	Sludge	RAW	Hg	2.21E+07	
C104	Hg	8/23/77	9172-A		0.11	moles/l	G	Sludge	Braun	Hg	2.21E+07	
Preliminary ASA Value: 2.01E+07 ug/L												
C104	Hg	8/23/77	9172		1.00E-01	M	G	Sludge	RAW	Hg	2.01E+07	
C104	Hg	8/23/77	9172-B		0.1	moles/l	G	Sludge	Braun	Hg	2.01E+07	
C107	Hg	8/2/77	T-8110-11		0.087	moles/l	G	Sludge	Braun	Hg	1.75E+07	
C107	Hg	9/26/77	510 Bottom		7.90E-02	M	S		RAW	Hg	1.58E+07	
C107	Hg	9/26/77	T-510-27		0.079	moles/l	G	Sludge	Braun	Hg	1.58E+07	
C107	Hg	8/2/77			7.80E-02	M	S	Solids	RAW	Hg	1.56E+07	
C107	Hg	8/2/77	T-8110-12		0.07	moles/l	G	Sludge	Braun	Hg	1.40E+07	
C107	Hg	8/2/77	T-8110-9		0.065	moles/l	G	Sludge	Braun	Hg	1.30E+07	
C107	Hg	8/2/77	T-8110-10		0.0607	moles/l	G	Sludge	Braun	Hg	1.22E+07	
TY106	Hg	9/18/80	RAT-TY106-2	1.86	0.653	wt. %	G	Sludge	Braun	Hg	1.21E+07	
A106	Hg	10/5/77	JS-30	1.51	0.057	moles/l	G	Sludge	Braun	Hg	1.14E+07	
A106	Hg	10/5/77	JS-31	1.51	0.056	moles/l	G	Sludge	Braun	Hg	1.12E+07	
C107	Hg	9/26/77	510 Top		5.10E-02	M	S		RAW	Hg	1.02E+07	
C107	Hg	9/26/77	T-510-32		0.051	moles/l	G	Sludge	Braun	Hg	1.02E+07	
SX106	Hg	4/18/78	8301	1.37	0.7	wt. %	S	Supernate/Solids	Braun	Hg	9.59E+06	
SX106	Hg	4/18/78	8301	1.33	0.7	wt. %	S	Supernate/Solids	Braun	Hg	9.31E+06	
U105	Hg	10/6/77	968		3.00E-02	M	S	Solid	RAW	Hg	6.02E+06	
U105	Hg	10/6/77	968		0.03	moles/l	S	Solids	Braun	Hg	6.02E+06	
C107	Hg	10/4/77	510 Middle		2.60E-02	M	S		RAW	Hg	5.22E+06	
C110	Hg	6/10/77	9501		2.00E-02	M	G	Sludge	RAW	Hg	4.01E+06	
C110	Hg	8/31/77	T-9501-34		0.02	moles/l	G	Sludge	Braun	Hg	4.01E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
 ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C107	Hg	10/4/77	510 Middle		1.90E-02	M	S		RAW	Hg	3.81E+06	
C107	Hg	9/26/77	T-510-23		0.019	moles/l	G	Sludge	Braun	Hg	3.81E+06	
U110	Hg	12/4/89	89-082/3/4		1955	ugm/gm	G	Sludge/Composite	Braun	Hg	3.13E+06	
U110	Mercury	12/1/89	Core Composite 15	1.29	1.96E+03	ug/g	I	PRIMARY	U110 Core Data	Hg	2.52E+06	
U110	Hg	11/29/89	89-072		1477	ugm/gm	G	Sludge	Braun	Hg	2.36E+06	
U110	Mercury	12/1/89	Core 12 Segment 4	1.48	1.48E+03	ug/g	I	PRIMARY	U110 Core Data	Hg	2.19E+06	
U110	Hg	12/3/89	89-077/8/9/0		1287	ugm/gm	G	Sludge/Composite	Braun	Hg	2.06E+06	
U110	Mercury	12/1/89	Core 12 Segment 4	1.48	1.37E+03	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.03E+06	
U110	Mercury	12/1/89	Core Composite 14	1.48	1.29E+03	ug/g	I	PRIMARY	U110 Core Data	Hg	1.90E+06	
U110	Mercury	12/1/89	Core Composite 7	1.675	1.03E+03	ug/g	I	PRIMARY	U110 Core Data	Hg	1.73E+06	
SX103	Hg	10/10/77	1104	1.5	0.0079	moles/l	S	Solids	Braun	Hg	1.58E+06	
SX103	Hg	10/10/77	1104	2	0.0079	moles/l	S	Solids	Braun	Hg	1.58E+06	
SX103	Hg	10/10/77	1104		7.90E-03	M	A	Salt	RAW	Hg	1.58E+06	
SX103	Hg	10/10/77			1.58E+00	g/L	G	Sludge	Wastren	Hg	1.58E+06	
U110	Hg	12/4/89	89-084		965	ugm/gm	G	Sludge	Braun	Hg	1.54E+06	
U110	Mercury	12/1/89	Core Composite 6	1.54	9.59E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.48E+06	
U110	Mercury	12/1/89	Core 15 Segment 3	1.3	1.06E+03	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.38E+06	
U110	Hg	12/4/89	89-083		824	ugm/gm	G	Sludge	Braun	Hg	1.32E+06	
U110	Mercury	12/1/89	Core 15 Segment 4	1.31	9.56E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	1.25E+06	
U110	Mercury	12/1/89	Core Composite 7	1.675	6.47E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.08E+06	
U110	Mercury	12/1/89	Core 15 Segment 3	1.3	8.24E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	1.07E+06	
Minimum Plot Limit: 1.00E+06 ug/L												
U110	Mercury	12/1/89	Core 15 Segment 4	1.31	7.24E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	9.48E+05	
U110	Mercury	12/1/89	Core 12 Segment 3	1	9.36E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	9.36E+05	
U110	Hg	11/29/89	89-071		550	ugm/gm	G	Sludge	Braun	Hg	8.80E+05	
U110	Hg	12/4/89	89-082		539	ugm/gm	G	Sludge	Braun	Hg	8.62E+05	
U110	Mercury	12/1/89	Core Composite 12	1.42	5.98E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	8.49E+05	
U110	Hg	11/30/89	89-076		460	ugm/gm	G	Sludge	Braun	Hg	7.36E+05	
U110	Hg	12/3/89	89-077		431	ugm/gm	G	Sludge	Braun	Hg	6.90E+05	
B201	Hg	12/4/78	1898	1.37	0.05	wt. %	G	Sludge	Braun	Hg	6.85E+05	
U110	Mercury	12/1/89	Core 15 Segment 2	1.27	5.39E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.85E+05	
U110	Mercury	12/1/89	Core 13 Segment 4	1.46	4.60E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.72E+05	
U110	Mercury	12/1/89	Core Composite 6	1.54	4.28E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.60E+05	
B201	Hg	12/4/78			6.58E-01	g/L	G	Sludge	Wastren	Hg	6.58E+05	
U110	Mercury	12/1/89	Core Composite 5	1.04	6.24E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.49E+05	
S111	Hg	8/25/78	1003/1004-C	1.86	0.03	wt. %	S	Solids	Braun	Hg	5.58E+05	
U110	Mercury	12/1/89	Core 12 Segment 3	1	5.50E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	5.50E+05	
U110	Mercury	12/1/89	Core 13 Segment 4	1.46	3.61E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.27E+05	
C106	Hg	7/22/88			3.27E+02	mg/kg	G	Sludge	RAW	Hg	5.23E+05	
U110	Mercury	12/1/89	Core Composite 12	1.42	3.49E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	4.95E+05	
S102	Hg	12/28/75	T-1018	1.4	2.46E-03	M	D	Suspended Solids	RAW	Hg	4.93E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
 ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U203	Hg	12/4/78			4.80E-01	g/L	G	Sludge	Wastren	Hg	4.80E+05	
S102	Hg	1/20/76	T-1683	1.39	2.22E-03	M	D	Suspended Solids	RAW	Hg	4.45E+05	
S111	Hg	8/25/78	1009-C	1.46	0.03	wt. %	S	Solids	Braun	Hg	4.38E+05	
S111	Hg	8/25/78	1009-C	1.44	0.03	wt. %	S	Solids	Braun	Hg	4.32E+05	
U110	Mercury	12/1/89	Core 14 Segment 4	1.62	2.36E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.82E+05	
TX103	Hg	4/9/76	T-4138	1.43	1.70E-03	M	D	suspended solids	RAW	Hg	3.41E+05	
BX105	Hg	2/11/76	T-2325	1.369	0.0016	moles/l	G	Sludge	Braun	Hg	3.21E+05	
U110	Mercury	12/1/89	Core Composite 5	1.04	2.93E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.05E+05	
SX107	Hg	1/29/77	1345	1.33	0.02	wt. %	A	Salts	Braun	Hg	2.66E+05	
U110	Mercury	12/1/89	Core Composite 14	1.48	1.64E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.42E+05	
U110	Mercury	12/1/89	Core 15 Segment 2	1.27	1.80E+02	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.29E+05	
U110	Hg	12/15/89	89-070/1/2		113	ugm/gm	G	Sludge/Composite	Braun	Hg	1.81E+05	
U110	Mercury	12/1/89	Core Composite 12	1.42	1.13E+02	ug/g	I	PRIMARY	U110 Core Data	Hg	1.60E+05	
S102	Hg	11/19/75	T-9952	1.29	7.24E-04	M	D	Suspended Solids	RAW	Hg	1.45E+05	
U103	Hg	12/4/78			1.40E-01	g/L	G	Sludge	Wastren	Hg	1.40E+05	
U103	Hg	12/4/78	3064	1.4	0.01	wt. %	S	Solids	Braun	Hg	1.40E+05	
U204	Hg	12/4/78			1.31E-01	g/L	G	Sludge	Wastren	Hg	1.31E+05	
U110	Mercury	12/1/89	Core Composite 15	1.29	9.50E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.23E+05	
BX112	Hg	6/11/79	RAT-BX112-1	1.22	0.01	wt. %	G	Sludge	Braun	Hg	1.22E+05	
U110	Mercury	12/1/89	Core Composite 14	1.48	7.45E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.10E+05	
U110	Mercury	12/1/89	Core 7 Segment 4	1.93	5.30E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.02E+05	
U110	Mercury	12/1/89	Core 12 Segment 2	1.77	5.70E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.01E+05	
U110	Mercury	12/1/89	Core Composite 15	1.29	7.63E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	9.85E+04	
U110	Mercury	12/1/89	Core 12 Segment 2	1.77	5.40E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	9.56E+04	
U110	Hg	11/10/89	89-044		54	ugm/gm	G	Sludge	Braun	Hg	8.64E+04	
U110	Mercury	12/1/89	Core Composite 13	1.3	6.60E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	8.58E+04	
U110	Mercury	12/1/89	Core Composite 8		5.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	8.48E+04	
U110	Hg	11/15/89	89-049		53	ugm/gm	G	Sludge	Braun	Hg	8.48E+04	
C201	Hg	12/4/78	T-3421	1.16	0.007	wt. %	G	Sludge	Braun	Hg	8.12E+04	
S111	Hg	9/18/80			7.86E-02	g/L	G	Sludge	Wastren	Hg	7.86E+04	
U110	Mercury	12/1/89	Core Composite 12	1.42	5.25E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	7.45E+04	
U110	Mercury	12/1/89	Core Composite 6	1.54	4.80E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	7.39E+04	
U110	Mercury	12/1/89	Core Composite 5	1.04	6.99E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	7.27E+04	
S111	Hg	9/18/80	RAT-S111-5		0.00449	wt. %	S	Solids	Braun	Hg	7.18E+04	
U110	Mercury	12/1/89	Core Composite 13	1.3	5.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	6.89E+04	
U110	Mercury	12/1/89	Core 6 Segment 2	1.59	4.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	6.84E+04	
U110	Mercury	12/1/89	Core Composite 12	1.42	4.80E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	6.82E+04	
U110	Mercury	12/1/89	Core Composite 8		4.20E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.72E+04	
C106	Hg	7/22/88			4.20E+01	mg/kg	G	Sludge	RAW	Hg	6.72E+04	
U110	Hg	11/17/89	89-050		42	ugm/gm	G	Sludge/Composite	Braun	Hg	6.72E+04	
U110	Mercury	12/1/89	Core 6 Segment 3	1.22	5.40E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.59E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
 ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Hg	11/10/89	89-043		40	ugm/gm	G	Sludge	Braun	Hg	6.40E+04	
U110	Mercury	12/1/89	Core Composite 6	1.54	4.14E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.38E+04	
U110	Mercury	12/1/89	Core Composite 7	1.675	3.80E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.37E+04	
U110	Mercury	12/1/89	Core 6 Segment 2	1.59	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.36E+04	
U110	Mercury	12/1/89	Core Composite 6	1.54	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.16E+04	
U110	Mercury	12/1/89	Core 13 Segment 3	1.14	5.40E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	6.16E+04	
U110	Mercury	12/1/89	Core 13 Segment 3	1.14	5.30E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.04E+04	
U110	Mercury	12/1/89	Core Composite 7	1.675	3.56E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	5.96E+04	
U110	Mercury	12/1/89	Core Composite 6	1.54	3.82E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.88E+04	
U110	Mercury	12/1/89	Core 7 Segment 1	1.78	3.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.87E+04	
U110	Mercury	12/1/89	Core Composite 12	1.42	4.08E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.80E+04	
U110	Mercury	12/1/89	Core Composite 7	1.675	3.39E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.67E+04	
U110	Mercury	12/1/89	Core Composite 14	1.48	3.80E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.62E+04	
U110	Mercury	12/1/89	Core Composite 7	1.675	3.20E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.36E+04	
U110	Mercury	12/1/89	Core Composite 5	1.04	4.96E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	5.15E+04	
S111	Hg	8/25/78	1001-C	1.27	0.004	wt. %	S	Solids	Braun	Hg	5.08E+04	
U110	Mercury	12/1/89	Core Composite 5	1.04	4.70E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	4.89E+04	
U110	Mercury	12/1/89	Core Composite 5	1.04	4.50E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	4.68E+04	
U110	Mercury	12/1/89	Core 14 Segment 2	1.39	3.30E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	4.59E+04	
U110	Mercury	12/1/89	Core 14 Segment 4	1.62	2.80E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	4.54E+04	
U110	Hg	12/3/89	89-080		28	ugm/gm	G	Sludge	Braun	Hg	4.48E+04	
U110	Mercury	12/1/89	Core Composite 15	1.29	3.40E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	4.38E+04	
C204	Hg	12/4/78	T-1914	1.07	0.004	wt. %	G	Sludge	Braun	Hg	4.28E+04	
T204	Hg	12/4/78	1914	1.07	0.004	wt. %	G	Sludge	Braun	Hg	4.28E+04	
U110	Hg	12/3/89	89-078		23	ugm/gm	G	Sludge	Braun	Hg	3.68E+04	
U110	Mercury	12/1/89	Core 7 Segment 4	1.93	1.90E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.67E+04	
t105	Mercury	5/28/93	B08WT2	0.89	4.10E+01	ug/g	S	PRIMARY RESULT	TCD	Hg	3.65E+04	
U110	Mercury	12/1/89	Core Composite 15	1.29	2.70E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	3.48E+04	
U110	Mercury	12/1/89	Core 6 Segment 3	1.22	2.80E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.42E+04	
T105	Hg	10/26/93	RAT-T105-2A	0.89	36.9	ugm/gm	G	Sludge/Composite	Braun	Hg	3.28E+04	
U110	Mercury	12/1/89	Core 14 Segment 2	1.39	2.30E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	3.20E+04	
t105	Mercury	5/28/93	B08WT4	2.01	1.18E+01	ug/g	S	PRIMARY RESULT	TCD	Hg	2.37E+04	
U110	Mercury	12/1/89	Core Composite 15	1.29	1.78E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.30E+04	
U110	Mercury	12/1/89	Core Composite 14	1.48	1.44E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	2.13E+04	
t105	Mercury	5/28/93	B08WT4	2.01	1.02E+01	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.05E+04	
U110	Mercury	12/1/89	Core 7 Segment 3	1.53	1.30E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.99E+04	
U110	Mercury	12/1/89	Core 6 Segment 4	1.8	1.10E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.98E+04	
U110	Mercury	12/1/89	Core 7 Segment 1	1.78	1.10E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.96E+04	
U110	Mercury	12/1/89	Core Composite 13	1.3	1.46E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.90E+04	
U110	Mercury	12/1/89	Core Composite 15	1.29	1.46E+01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.88E+04	
U110	Mercury	12/1/89	Core 7 Segment 3	1.53	1.20E+01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.84E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Hg	12/3/89	89-077		0.693	ugm/gm	G	Sludge	Braun	Hg	1.11E+03	
U110	Mercury	12/1/89	Core Composite 14	1.48	6.95E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.03E+03	
U110	Mercury	12/1/89	Core Composite 13	1.3	6.28E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	8.16E+02	
U110	Mercury	12/1/89	Core Composite 12	1.42	5.65E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	8.02E+02	
U110	Mercury	12/1/89	Core Composite 12	1.42	5.60E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	7.95E+02	
U110	Mercury (ug/g)	12/1/89	Core Composite 8		4.60E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	7.36E+02	
U110	Mercury	12/1/89	Core Composite 14	1.48	4.84E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	7.16E+02	
U110	Mercury	12/1/89	Core Composite 13	1.3	4.99E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	6.49E+02	
U110	Mercury (ug/g)	12/1/89	Core Composite 8		3.96E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	6.34E+02	
U110	Hg	11/17/89	89-050		0.396	ugm/gm	G	Sludge/Composite	Braun	Hg	6.34E+02	
U110	Hg	12/3/89	89-077/8/9/0		0.32	ugm/gm	G	Sludge/Composite	Braun	Hg	5.12E+02	
U110	Mercury	12/1/89	Core Composite 8		3.18E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	5.09E+02	
U110	Mercury	12/1/89	Core Composite 8		2.84E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	4.54E+02	
U110	Hg	12/3/89	89-078		0.276	ugm/gm	G	Sludge	Braun	Hg	4.42E+02	
U110	Hg	12/3/89	89-079		0.258	ugm/gm	G	Sludge	Braun	Hg	4.13E+02	
U110	Mercury	12/1/89	Core Composite 14	1.48	2.48E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.67E+02	
U110	Mercury	12/1/89	Core Composite 14	1.48	2.43E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	3.60E+02	
U110	Mercury	12/1/89	Core Composite 7	1.675	1.79E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	3.00E+02	
U110	Mercury	12/1/89	Core Composite 7	1.675	1.69E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.83E+02	
U110	Mercury	12/1/89	Core Composite 6	1.54	1.32E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	2.03E+02	
s104	Mercury	8/1/92	B08TF6	1.6	1.26E-01	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.02E+02	
s104	Mercury	8/1/92	B08TF6		1.26E-01	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.02E+02	
s104	Mercury	8/1/92	B08TF7	1.6	1.26E-01	ug/g	S	PRIMARY RESULT	TCD	Hg	2.02E+02	
s104	Mercury	8/1/92	B08TF7		1.26E-01	ug/g	S	PRIMARY RESULT	TCD	Hg	2.02E+02	
t107	Mercury	3/1/93	B08VB9	1.19	1.53E-01	ug/g	S	PRIMARY RESULT	TCD	Hg	1.82E+02	
U110	Mercury	12/1/89	Core Composite 8		1.09E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.74E+02	
U110	Mercury	12/1/89	Core Composite 5	1.04	1.60E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.66E+02	
B110	Hg	6/21/90	90-2557		1.60E-01	ug/ml	G	EP#1 Result	RAW	Hg	1.60E+02	
U110	Hg	9/19/89	89-040/1		0.1	ppm	G	Sludge/Composite	Braun	Hg	1.60E+02	
t107	Mercury	3/1/93	B08VB9	1.19	1.34E-01	ug/g	S	DUPLICATE RESULT	TCD	Hg	1.59E+02	
U110	Mercury	12/1/89	Core Composite 6	1.54	1.00E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.54E+02	
U110	Mercury	12/1/89	Core Composite 8		9.18E-02	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.47E+02	
U110	Mercury	12/1/89	Core Composite 5	1.04	1.30E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.35E+02	
U110	Mercury (ug/g)	12/1/89	Core Composite 5	1.04	1.20E-01	ug/g	I	DUPLICATE	U110 Core Data	Hg	1.25E+02	
U110	Mercury (ug/g)	12/1/89	Core Composite 5	1.04	1.00E-01	ug/g	I	PRIMARY	U110 Core Data	Hg	1.04E+02	
B110	Hg	6/21/90	90-2555		9.00E-02	ug/ml	G	EP#1 Results	RAW	Hg	9.00E+01	
B110	Hg	6/21/90			9.00E-02	ug/ml	G	EP#2 Results	RAW	Hg	9.00E+01	
U110	Hg	12/3/89	89-080		0.0482	ugm/gm	G	Sludge	Braun	Hg	7.71E+01	
U110	Mercury	12/1/89	Core Composite 12	1.42	4.64E-02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.59E+01	
U110	Mercury	12/1/89	Core Composite 15	1.29	5.02E-02	ug/g	I	PRIMARY	U110 Core Data	Hg	6.48E+01	
U110	Mercury	12/1/89	Core Composite 5	1.04	5.70E-02	ug/g	I	PRIMARY	U110 Core Data	Hg	5.93E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Single-Shell Tank Solids [Sketch ES-VAL-CC24]
 ASA Value: 5.42E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Hg	6/21/90	89-0977		5.00E-02	ug/ml	G	Acid Results	RAW	Hg	5.00E+01	
U110	Mercury	12/1/89	Core Composite 12	1.42	3.03E-02	ug/g	I	DUPLICATE	U110 Core Data	Hg	4.30E+01	
U110	Mercury	12/1/89	Core Composite 15	1.29	2.81E-02	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.62E+01	
U110	Mercury	12/1/89	Core Composite 5	1.04	3.00E-02	ug/g	I	DUPLICATE	U110 Core Data	Hg	3.12E+01	
U110	Mercury	12/1/89	Core Composite 13	1.3	2.28E-02	ug/g	I	DUPLICATE	U110 Core Data	Hg	2.96E+01	
s104	Mercury	8/1/92	B08TL3	1.6	2.62E-02	ug/mL	S	PRIMARY RESULT	TCD	Hg	2.62E+01	
s104	Mercury	8/1/92	B08TL3		2.62E-02	ug/mL	S	PRIMARY RESULT	TCD	Hg	2.62E+01	
U110	Mercury	12/1/89	Core Composite 13	1.3	1.20E-02	ug/g	I	PRIMARY	U110 Core Data	Hg	1.56E+01	
C102	Hg	2/1/91	1		6.60E-03	ug/mL	S	water leach	RAW	Hg	6.60E+00	
C102	Hg	2/1/91	2		6.30E-03	ug/mL	S	water leach	RAW	Hg	6.30E+00	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Liquids [Sketch ES-VAL-CC25]

Tank Waste Characterization Sample Information													Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID		
					Value	Unit								
C201	La	12/4/78			8.12E-01	g/L	P	Supernate	Wastren	La	8.12E+05	15		
ASA Value: 1.85E+05 ug/L														
BY102	La	6/3/91	R-8081	1.42	130	ppm	P	Supernate	Braun	La	1.85E+05	*		
BY102	La	6/3/91	R-8081	1.42	1.30E+02	ppm	P	Supernatant	RAW	La	1.85E+05	*		
BY102	La	11/20/90	R-8081		1.27E+02	ppm	P	Supernatant	RAW	La	1.40E+05			
BY102	La	6/3/91			9.15E-02	g/L	P	Supernate	Wastren	La	9.15E+04			
AX102	La	11/14/88			5.56E-02	g/L	P	Supernate	Wastren	La	5.56E+04			
AX102	La	11/14/88	RAT-AX102-3		0.0004	moles/l	P	Supernate	Braun	La	5.56E+04			
AX102	La	8/1/88			4.00E-04	M	P	supernate	RAW	La	5.56E+04			
c110	Lanthanum	4/23/92	B08VM5	1	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VM5	1	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VH6	1.18	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VH6	1.18	1.62E+00	ug/mL	L	DUPLICATE RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VM5	1	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VM5	1	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VH6	1.18	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VH6	1.18	1.62E+00	ug/mL	L	PRIMARY RESULT	TCD	La	1.62E+03			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VH6	1.18	8.16E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VH6	1.18	8.16E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VP9	1.1	8.16E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VH6	1.18	8.16E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.16E+02			
c110	Lanthanum	4/23/92	B08VH6	1.18	8.16E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.16E+02			
C110	La	11/1/91	1	1.1	8.16E-01	ug/ml	L	core 38 seg. 4	RAW	La	8.16E+02			
C110	La	11/1/91	2	1.1	8.16E-01	ug/ml	L	core 38 seg. 4	RAW	La	8.16E+02			
C110	La	11/1/91	1	1.18	8.16E-01	ug/ml	L	core 39 seg. 3	RAW	La	8.16E+02			

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Liquids [Sketch ES-VAL-CC25]
ASA Value: 1.85E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C110	La	11/1/91	2	1.18	8.16E-01	ug/ml.	L	core 39 seg. 3	RAW	La	8.16E+02	
c110	Lanthanum	4/23/92	B08VM5	1	8.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.00E+02	
c110	Lanthanum	4/23/92	B08VM5	1	8.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	8.00E+02	
c110	Lanthanum	4/23/92	B08VM5	1	8.00E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.00E+02	
c110	Lanthanum	4/23/92	B08VM5	1	8.00E-01	ug/mL	L	PRIMARY RESULT	TCD	La	8.00E+02	
C110	La	11/1/91	1	1	8.00E-01	ug/ml	L	core 37 seg. 3	RAW	La	8.00E+02	
C110	La	11/1/91	2	1	8.00E-01	ug/ml	L	core 37 seg. 3	RAW	La	8.00E+02	
t104	Lanthanum	8/26/92	B08TQ7	1.1	2.10E-01	ug/mL	L	PRIMARY RESULT	TCD	La	2.10E+02	
t107	Lanthanum	3/1/93	B08V16	1.02	2.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	2.00E+02	
t107	Lanthanum	3/1/93	B08V16	1.02	2.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	La	2.00E+02	
t107	Lanthanum	3/1/93	B08V16	1.02	2.00E-01	ug/mL	L	PRIMARY RESULT	TCD	La	2.00E+02	
t107	Lanthanum	3/1/93	B08V16	1.02	2.00E-01	ug/mL	L	PRIMARY RESULT	TCD	La	2.00E+02	
t107	Lanthanum	3/1/93	B08V58	1.2	2.00E-01	ug/mL	L	PRIMARY RESULT	TCD	La	2.00E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
t107	Lanthanum	3/1/93	B08VB5	1.1	5.00E-01	UG/L	L	DUPLICATE RESULT	TCD	La	5.00E-01	
B202	La	3/3/81			1.64E-12	g-moles	L		TRAC	La	2.28E-09	
B204	La	3/5/81			1.52E-12	g-moles	L		TRAC	La	1.13E-09	
B203	La	3/4/81			1.53E-12	g-moles	L		TRAC	La	1.12E-09	
T202	La	3/14/81			3.67E-13	g-moles	L		TRAC	La	6.41E-10	
T203	La	3/15/81			3.64E-13	g-moles	L		TRAC	La	3.63E-10	
T101	La	3/12/81			6.91E-13	g-moles	L		TRAC	La	1.95E-10	
B109	La	3/2/81			1.97E-13	g-moles	L		TRAC	La	1.10E-10	
B103	La	3/1/81			7.36E-14	g-moles	L		TRAC	La	3.02E-11	
T102	La	3/13/81			1.17E-14	g-moles	L		TRAC	La	2.86E-11	
SX106	La	3/11/81			5.36E-15	g-moles	L		TRAC	La	4.12E-13	
U107	La	3/20/81			1.93E-15	g-moles	L		TRAC	La	1.81E-13	
U111	La	3/21/81			5.18E-16	g-moles	L		TRAC	La	1.44E-13	
TX109	La	3/17/81			6.13E-21	g-moles	L		TRAC	La	5.61E-19	
TX110	La	3/18/81			6.22E-22	g-moles	L		TRAC	La	4.42E-20	
TX111	La	3/19/81			1.26E-23	g-moles	L		TRAC	La	1.18E-21	
TX103	La	3/16/81			1.49E-24	g-moles	L		TRAC	La	2.68E-22	
SX104	La	3/10/81			7.53E-26	g-moles	L		TRAC	La	8.03E-24	
S101	La	3/6/81			4.10E-26	g-moles	L		TRAC	La	6.57E-24	
S102	La	3/7/81			1.03E-33	g-moles	L		TRAC	La	1.02E-31	
S108	La	3/8/81			6.07E-35	g-moles	L		TRAC	La	3.70E-33	
SX101	La	3/9/81			2.59E-36	g-moles	L		TRAC	La	6.01E-34	

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4/18/95

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
T203	La				1.20E+03	g-moles	S		TRAC	La	2.20E+08	4
B204	La				2.59E+03	g-moles	S		TRAC	La	1.90E+08	4
ASA Value: 5.02E+07 ug/L												
TY104	La	9/18/80	RAT-TY104-2	1.57	3.2	wt. %	G	Sludge	Braun	La	5.02E+07	*
TY104	La(3+)	9/18/80		1.41	3.20E+00	wt %	S	H2O INSOLUBLE	RAW	La	4.51E+07	
TY104	La	12/20/79	RAT-TY104-1	1.41	2.83	wt. %	G	Sludge	Braun	La	3.99E+07	
TY104	La(3+)	8/22/79		1.41	2.83E+00	wt %	S	H2O INSOLUBLE	RAW	La	3.99E+07	
U204	La	12/4/78			3.28E+01	g/L	G	Sludge	Wastren	La	3.28E+07	
U204	La	12/4/78	RAT-U204-1	1.31	2.5	wt. %	S	Solids	Braun	La	3.28E+07	
Preliminary ASA Value: 3.3E+07 ug/L												
TY104	La(3+)	9/18/80		1.57	1.72E+00	wt %	S	H2O INSOLUBLE	RAW	La	2.70E+07	
b202	Lanthanum	6/7/91	B08SP8	0.98	2.64E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.59E+07	
b201	Lanthanum	8/1/91	B08F21	1.3	1.88E+04	ug/g	S	PRIMARY RESULT	TCD	La	2.45E+07	
b201	Lanthanum	8/1/91	B08F21	1.3	1.82E+04	ug/g	S	DUPLICATE RESULT	TCD	La	2.36E+07	
B204	La	12/4/78	1974	1.14	2.01	wt. %	G	Sludge	Braun	La	2.29E+07	
B204	La	12/4/78			2.29E+01	g/L	G	Sludge	Wastren	La	2.29E+07	
b201	Lanthanum	8/1/91	B08F21	1.3	1.71E+04	ug/g	S	PRIMARY RESULT	TCD	La	2.23E+07	
TY105	La	2/1/80	RAT-TY105-1	1.44	1.54	wt. %	G	Sludge	Braun	La	2.22E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.61E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.18E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.61E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.17E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.61E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.17E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.58E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.13E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.51E+04	mg/kg	S	PRIMARY RESULT	TCD	La	2.04E+07	
B202	La	12/31/91			1.88E+01	g/L	G	Sludge	Wastren	La	1.88E+07	
B202	La	12/4/78	2509	1.25	1.5	wt. %	G	Sludge	Braun	La	1.88E+07	
b202	Lanthanum	6/7/91	B08SM4	1.35	1.38E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.87E+07	
b201	Lanthanum	8/1/91	B08F21	1.3	1.43E+04	ug/g	S	DUPLICATE RESULT	TCD	La	1.86E+07	
b202	Lanthanum	6/7/91	B08SP8	0.98	1.89E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.85E+07	
B201	La	12/4/78	1898	1.37	1.3	wt. %	G	Sludge	Braun	La	1.78E+07	
B201	La	12/4/78			1.78E+01	g/L	G	Sludge	Wastren	La	1.78E+07	
b202	Lanthanum	6/7/91	B08SM2	1.02	1.69E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.72E+07	
b202	Lanthanum	6/7/91	B0BC06	0.99	1.61E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.60E+07	
b202	Lanthanum	6/7/91	B08SP8	0.98	1.54E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.51E+07	
b202	Lanthanum	6/7/91	B08SK0	0.93	1.57E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.46E+07	
b202	Lanthanum	6/7/91	B08SK0	0.93	1.56E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.45E+07	
b202	Lanthanum	6/7/91	B08SP6	0.98	1.48E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.45E+07	
b202	Lanthanum	6/7/91	B08SK0	0.93	1.53E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.42E+07	
b202	Lanthanum	6/7/91	B08SM2	1.02	1.37E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.40E+07	
b201	Lanthanum	8/1/91	B08RP3	1.2	1.16E+04	ug/g	S	DUPLICATE RESULT	TCD	La	1.39E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information												Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID	
					Value	Unit							
b202	Lanthanum	6/7/91	B0BC06	0.99	1.38E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.37E+07		
b201	Lanthanum	8/1/91	B08RP3	1.2	1.14E+04	ug/g	S	DUPLICATE RESULT	TCD	La	1.37E+07		
b202	Lanthanum	6/7/91	B08SP8	0.98	1.37E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.34E+07		
b201	Lanthanum	8/1/91	B08RP3	1.2	1.12E+04	ug/g	S	PRIMARY RESULT	TCD	La	1.34E+07		
b202	Lanthanum	6/7/91	B08SP8	0.98	1.37E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.34E+07		
b202	Lanthanum	6/7/91	B08SM2	1.02	1.29E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.31E+07		
b202	Lanthanum	6/7/91	B08SK0	0.93	1.41E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.31E+07		
b202	Lanthanum	6/7/91	B08SK0	0.93	1.40E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.30E+07		
b202	Lanthanum	6/7/91	B08SK0	0.93	1.40E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.30E+07		
b202	Lanthanum	6/7/91	B08SP6	0.98	1.31E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.28E+07		
b202	Lanthanum	6/7/91	B08SP6	0.98	1.31E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.28E+07		
b201	Lanthanum	8/1/91	B08RP3	1.2	1.07E+04	ug/g	S	PRIMARY RESULT	TCD	La	1.28E+07		
b202	Lanthanum	6/7/91	B08SP8	0.98	1.30E+04	mg/kg	S	DUPLICATE RESULT	TCD	La	1.27E+07		
b202	Lanthanum	6/7/91	B0BC06	0.99	1.26E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.25E+07		
b202	Lanthanum	6/7/91	B0BC06	0.99	1.23E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.22E+07		
b201	Lanthanum	8/1/91	B08F17	1.2	1.01E+04	ug/g	S	DUPLICATE RESULT	TCD	La	1.22E+07		
b202	Lanthanum	6/7/91	B0BC06	0.99	1.20E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.19E+07		
b202	Lanthanum	6/7/91	B0BC06	0.99	1.19E+04	mg/kg	S	PRIMARY RESULT	TCD	La	1.18E+07		
b201	Lanthanum	8/1/91	B08F17	1.2	8.99E+03	ug/g	S	PRIMARY RESULT	TCD	La	1.08E+07		
b201	Lanthanum	8/1/91	B08F17	1.2	8.95E+03	ug/g	S	PRIMARY RESULT	TCD	La	1.07E+07		
U103	La	12/4/78	3064	1.4	0.76	wt.%	S	Solids	Braun	La	1.06E+07		
U103	La	12/4/78			1.06E+01	g/L	G	Sludge	Wastren	La	1.06E+07		
b201	Lanthanum	8/1/91	B08F17	1.2	8.30E+03	ug/g	S	DUPLICATE RESULT	TCD	La	9.96E+06		
b202	Lanthanum	6/7/91	B08SP6	0.98	9.41E+03	mg/kg	S	PRIMARY RESULT	TCD	La	9.22E+06		
b202	Lanthanum	6/7/91	B08SM2	1.02	7.65E+03	mg/kg	S	PRIMARY RESULT	TCD	La	7.80E+06		
TY103	La	2/1/80	RAT-TY103-2	1.5	0.51	wt.%	G	Sludge	Braun	La	7.65E+06		
b202	Lanthanum	6/7/91	B08SP6	0.98	7.65E+03	mg/kg	S	PRIMARY RESULT	TCD	La	7.50E+06		
b202	Lanthanum	6/7/91	B08SM2	1.02	7.30E+03	mg/kg	S	PRIMARY RESULT	TCD	La	7.45E+06		
T111	La	8/7/92	J-470		4510	ugm/gm	G	Sludge/Composite	Braun	La	7.22E+06		
b202	Lanthanum	6/7/91	B08SP6	0.98	7.36E+03	mg/kg	S	PRIMARY RESULT	TCD	La	7.21E+06		
b202	Lanthanum	6/7/91	B08SM2	1.02	6.17E+03	mg/kg	S	PRIMARY RESULT	TCD	La	6.29E+06		
t111	Lanthanum	11/1/91	B08ST9	1.11	5.36E+03	ug/g	S	DUPLICATE RESULT	TCD	La	5.95E+06		
T111	La	8/7/92	J-466		3690	ugm/gm	G	Sludge/Composite	Braun	La	5.90E+06		
T111	La	8/7/92	J-404	1.11	5153.3	ugm/gm	G	Sludge	Braun	La	5.72E+06		
TY105	La	9/18/80	RAT-TY105-2	1.44	0.397	wt.%	G	Sludge	Braun	La	5.72E+06		
t111	Lanthanum	11/1/91	B08ST9	1.11	5.15E+03	ug/g	S	PRIMARY RESULT	TCD	La	5.72E+06		
t111	Lanthanum	11/1/91	B08ST9	1.11	5.12E+03	ug/g	S	PRIMARY RESULT	TCD	La	5.68E+06		
t111	Lanthanum	11/1/91	B08ST9	1.11	4.91E+03	ug/g	S	DUPLICATE RESULT	TCD	La	5.45E+06		
t111	Lanthanum	11/1/91	B08SV7	1.09	4.96E+03	ug/g	S	DUPLICATE RESULT	TCD	La	5.41E+06		
T111	La	8/7/92	J-408	1.09	4954.5	ugm/gm	G	Sludge	Braun	La	5.40E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
t111	Lanthanum	11/1/91	B08SV7	1.09	4.95E+03	ug/g	S	PRIMARY RESULT	TCD	La	5.40E+06			
t111	Lanthanum	11/1/91	B08SV7	1.09	4.93E+03	ug/g	S	PRIMARY RESULT	TCD	La	5.37E+06			
t111	Lanthanum	11/1/91	B08SV7	1.09	4.81E+03	ug/g	S	DUPLICATE RESULT	TCD	La	5.24E+06			
t111	Lanthanum	11/1/91	B08SQ9	1.13	4.61E+03	ug/g	S	DUPLICATE RESULT	TCD	La	5.21E+06			
t111	Lanthanum	11/1/91	B08SQ9	1.13	4.56E+03	ug/g	S	PRIMARY RESULT	TCD	La	5.15E+06			
T111	La	8/7/92	J-414	1.13	4560	ugm/gm	G	Sludge	Braun	La	5.15E+06			
t111	Lanthanum	11/1/91	B08SX5	1.06	4.24E+03	ug/g	S	DUPLICATE RESULT	TCD	La	4.49E+06			
t111	Lanthanum	11/1/91	B08SX5	1.06	4.23E+03	ug/g	S	PRIMARY RESULT	TCD	La	4.48E+06			
T111	La	8/7/92	J-410	1.06	4225.1	ugm/gm	G	Sludge	Braun	La	4.48E+06			
t111	Lanthanum	11/1/91	B08SX5	1.06	4.21E+03	ug/g	S	DUPLICATE RESULT	TCD	La	4.46E+06			
t111	Lanthanum	11/1/91	B08SX5	1.06	4.06E+03	ug/g	S	PRIMARY RESULT	TCD	La	4.30E+06			
t111	Lanthanum	11/1/91	B08ST7	0.93	4.03E+03	ug/g	S	PRIMARY RESULT	TCD	La	3.75E+06			
T111	La	8/7/92	J-402	0.93	4025.1	ugm/gm	G	Sludge	Braun	La	3.74E+06			
t111	Lanthanum	11/1/91	B08ST7	0.93	4.00E+03	ug/g	S	DUPLICATE RESULT	TCD	La	3.72E+06			
t111	Lanthanum	11/1/91	B08ST7	0.93	3.82E+03	ug/g	S	PRIMARY RESULT	TCD	La	3.55E+06			
t111	Lanthanum	11/1/91	B08ST7	0.93	3.79E+03	ug/g	S	DUPLICATE RESULT	TCD	La	3.52E+06			
TY103	La(3+)	9/27/80		1.5	1.03E-01	wt %	K	saltcake	RAW	La	1.55E+06			
TY103	La	9/18/80	RAT-TY103-1	1.5	0.103	wt.%	G	Sludge	Braun	La	1.55E+06			
SX101	La	12/4/78	4523	1.76	0.07	wt.%	A	Salts	Braun	La	1.23E+06			
SX101	La	12/4/78	4523	1.52	0.07	wt.%	A	Salts	Braun	La	1.06E+06			
U105	La	12/4/78	RAT-U105-3	1.62	0.06	wt.%	A	Salts	Braun	La	9.72E+05			
U105	La	12/4/78			9.72E-01	g/L	K	Saltcake	Wastren	La	9.72E+05			
C201	La	12/4/78	T-3421	1.16	0.07	wt.%	G	Sludge	Braun	La	8.12E+05			
B110	Lanthanum	4/1/90	CORE 2 SEGMENT 1	1.24	5.32E+02	ug/g	I	DUPLICATE	B110 Core Data	La	6.59E+05			
B110	Lanthanum	4/1/90	CORE 2 SEGMENT 1	1.24	5.27E+02	ug/g	I	PRIMARY	B110 Core Data	La	6.54E+05			
U110	Lanthanum	12/1/89	Core 5 Segment 3	1.04	5.76E+02	ug/g	I	DUPLICATE	U110 Core Data	La	5.99E+05			
B202	La				2.59E+01	g-moles	S		TRAC	La	5.94E+05			
T111	La				8.48E+03	g-moles	S		TRAC	La	5.87E+05			
U110	La	12/4/89	89-084		342	ugm/gm	G	Sludge	Braun	La	5.47E+05			
U110	Lanthanum	12/1/89	Core 12 Segment 2	1.77	3.07E+02	ug/g	I	PRIMARY	U110 Core Data	La	5.43E+05			
U110	Lanthanum	12/1/89	Core 12 Segment 2	1.77	3.00E+02	ug/g	I	DUPLICATE	U110 Core Data	La	5.31E+05			
U110	La	11/30/89	89-075		310	ugm/gm	G	Sludge	Braun	La	4.96E+05			
U110	La	11/29/89	89-070		307	ugm/gm	G	Sludge	Braun	La	4.91E+05			
U110	Lanthanum	12/1/89	Core 15 Segment 4	1.31	3.42E+02	ug/g	I	PRIMARY	U110 Core Data	La	4.48E+05			
B110	Lanthanum	4/1/90	CORE 1 SEGMENT 2	1.3	3.36E+02	ug/g	I	PRIMARY	B110 Core Data	La	4.37E+05			
B110	Lanthanum	4/1/90	CORE 1 SEGMENT 2	1.3	3.31E+02	ug/g	I	DUPLICATE	B110 Core Data	La	4.30E+05			
B110	Lanthanum	4/1/90	CORE 1 SEGMENT 2	1.3	3.28E+02	ug/g	I	DUPLICATE	B110 Core Data	La	4.27E+05			
U110	Lanthanum	12/1/89	Core 13 Segment 3	1.14	3.10E+02	ug/g	I	PRIMARY	U110 Core Data	La	3.53E+05			
U110	Lanthanum	12/1/89	Core Composite 8		2.09E+02	ug/g	I	DUPLICATE	U110 Core Data	La	3.34E+05			
c112	Lanthanum	3/1/92	B08DY1	2	1.63E+02	ug/g	S	DUPLICATE RESULT	TCD	La	3.26E+05			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Lanthanum	3/1/92	B08DY1	2	1.55E+02	ug/g	S	DUPLICATE RESULT	TCD	La	3.11E+05	
U110	Lanthanum	12/1/89	Core 13 Segment 3	1.14	2.71E+02	ug/g	I	DUPLICATE	U110 Core Data	La	3.09E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.46E+02	ug/g	S	DUPLICATE RESULT	TCD	La	2.93E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.45E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.90E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.45E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.89E+05	
B110	Lanthanum	4/1/90	CORE 1 SEGMENT 2	1.3	2.22E+02	ug/g	I	PRIMARY	B110 Core Data	La	2.89E+05	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	1.87E+02	ug/g	I	DUPLICATE	U110 Core Data	La	2.88E+05	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	2.21E+02	ug/g	I	DUPLICATE	U110 Core Data	La	2.85E+05	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	2.09E+02	ug/g	I	PRIMARY	B110 Core Data	La	2.85E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.40E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.80E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.40E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.80E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.39E+02	ug/g	S	DUPLICATE RESULT	TCD	La	2.78E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.33E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.65E+05	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	1.95E+02	ug/g	I	DUPLICATE	B110 Core Data	La	2.65E+05	
U110	Lanthanum	12/1/89	Core Composite 8		1.64E+02	ug/g	I	PRIMARY	U110 Core Data	La	2.62E+05	
U110	Lanthanum	12/1/89	Core 7 Segment 1	1.78	1.47E+02	ug/g	I	DUPLICATE	U110 Core Data	La	2.62E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.31E+02	ug/g	S	DUPLICATE RESULT	TCD	La	2.61E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.31E+02	ug/g	S	DUPLICATE RESULT	TCD	La	2.61E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.25E+02	ug/g	S	DUPLICATE RESULT	TCD	La	2.50E+05	
U110	Lanthanum	12/1/89	Core Composite 7	1.675	1.47E+02	ug/g	I	PRIMARY	U110 Core Data	La	2.46E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.22E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.45E+05	
B110	Lanthanum	4/1/90	Core Composite 9	1.32	1.84E+02	ug/g	I	PRIMARY	B110 Core Data	La	2.43E+05	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	1.55E+02	ug/g	I	PRIMARY	U110 Core Data	La	2.39E+05	
c112	Lanthanum	3/1/92	B08DY1	2	1.18E+02	ug/g	S	PRIMARY RESULT	TCD	La	2.35E+05	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	1.47E+02	ug/g	I	PRIMARY	U110 Core Data	La	2.26E+05	
U110	Lanthanum	12/1/89	Core Composite 14	1.48	1.50E+02	ug/g	I	DUPLICATE	U110 Core Data	La	2.22E+05	
TY105	La(3+)	10/1/85		1.44	1.54E-02	wt %	I	core composite	RAW	La	2.22E+05	
BX110	La	9/18/80	RAT-BX110-1	1.45	0.0151	wt. %	G	Sludge	Braun	La	2.19E+05	
U110	Lanthanum	12/1/89	Core Composite 14	1.48	1.47E+02	ug/g	I	PRIMARY	U110 Core Data	La	2.18E+05	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	1.58E+02	ug/g	I	PRIMARY	B110 Core Data	La	2.15E+05	
U110	Lanthanum	12/1/89	Core Composite 7	1.675	1.24E+02	ug/g	I	DUPLICATE	U110 Core Data	La	2.08E+05	
U110	La	11/29/89	89-072		129	ugm/gm	G	Sludge	Braun	La	2.06E+05	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	1.51E+02	ug/g	I	DUPLICATE	B110 Core Data	La	2.05E+05	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	1.53E+02	ug/g	I	PRIMARY	U110 Core Data	La	1.97E+05	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	1.86E+02	ug/g	I	DUPLICATE	U110 Core Data	La	1.93E+05	
U110	Lanthanum	12/1/89	Core 12 Segment 4	1.48	1.29E+02	ug/g	I	PRIMARY	U110 Core Data	La	1.91E+05	
B110	Lanthanum	4/1/90	Core Composite 9	1.32	1.39E+02	ug/g	I	DUPLICATE	B110 Core Data	La	1.84E+05	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	1.74E+02	ug/g	I	PRIMARY	U110 Core Data	La	1.81E+05	
B110	Lanthanum	4/1/90	Core Composite 10	1.34	1.30E+02	ug/g	I	PRIMARY	B110 Core Data	La	1.74E+05	
B110	Lanthanum	4/1/90	Core Composite 10	1.34	1.27E+02	ug/g	I	DUPLICATE	B110 Core Data	La	1.70E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Lanthanum	12/1/89	Core 15 Segment 3	1.3	1.29E+02	ug/g	I	DUPLICATE	U110 Core Data	La	1.68E+05	
B110	Lanthanum	4/1/90	Core Composite 4	1.36	1.18E+02	ug/g	I	DUPLICATE	B110 Core Data	La	1.61E+05	
U110	Lanthanum	12/1/89	Core 15 Segment 4	1.31	1.19E+02	ug/g	I	DUPLICATE	U110 Core Data	La	1.56E+05	
B110	Lanthanum	4/1/90	Core Composite 4	1.36	1.14E+02	ug/g	I	PRIMARY	B110 Core Data	La	1.55E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	9.28E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.48E+05	
c109	Lanthanum	9/1/92	B08T15	1.2	1.21E+02	ug/g	S	DUPLICATE RESULT	TCD	La	1.45E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	8.99E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.44E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	8.45E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.35E+05	
c109	Lanthanum	9/1/92	B08T15	1.2	1.11E+02	ug/g	S	PRIMARY RESULT	TCD	La	1.33E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.97E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.28E+05	
B110	Lanthanum	4/1/90	CORE 3 SEGMENT 3	1.3	9.54E+01	ug/g	I	DUPLICATE	B110 Core Data	La	1.24E+05	
B110	Lanthanum	4/1/90	CORE 3 SEGMENT 3	1.3	9.54E+01	ug/g	I	PRIMARY	B110 Core Data	La	1.24E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.74E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.24E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.68E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.23E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.65E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.22E+05	
U110	Lanthanum	12/1/89	Core Composite 12	1.42	8.60E+01	ug/g	I	PRIMARY	U110 Core Data	La	1.22E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.60E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.22E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.57E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.21E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.50E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.20E+05	
c109	Lanthanum	9/1/92	B08T17	1.2	1.00E+02	ug/g	S	PRIMARY RESULT	TCD	La	1.20E+05	
t107	Lanthanum	3/1/93	B08VD8	1.42	8.37E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.19E+05	
C102	La	12/1/86	RAT-C102-2		74.2	ugm/gm	I	Composite	Braun	La	1.19E+05	
C102	La	6/17/87			7.42E+01	uG/G	S	Acid/PARR	RAW	La	1.19E+05	
t107	Lanthanum	3/1/93	B08VD8	1.42	8.35E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.19E+05	
c112	Lanthanum	3/1/92	B08DM7	1.6	7.19E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.15E+05	
U110	Lanthanum	12/1/89	Core Composite 12	1.42	8.10E+01	ug/g	I	PRIMARY	U110 Core Data	La	1.15E+05	
U110	Lanthanum	12/1/89	Core Composite 13	1.3	8.80E+01	ug/g	I	PRIMARY	U110 Core Data	La	1.14E+05	
c112	Lanthanum	3/1/92	B08DN8	1.6	6.86E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.10E+05	
U110	La	11/10/89	89-043		68	ugm/gm	G	Sludge	Braun	La	1.09E+05	
U110	Lanthanum	12/1/89	Core 6 Segment 2	1.59	6.80E+01	ug/g	I	PRIMARY	U110 Core Data	La	1.08E+05	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	1.00E+02	ug/g	I	PRIMARY	U110 Core Data	La	1.04E+05	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	7.58E+01	ug/g	I	PRIMARY	B110 Core Data	La	1.03E+05	
C102	La	7/10/86	E1XCOOXX	1.351	74.2	ugm/gm	G	Sludge/Composite	Braun	La	1.00E+05	
t107	Lanthanum	3/1/93	B08VB9	1.19	8.40E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.00E+05	
t107	Lanthanum	3/1/93	B08VB9	1.19	8.38E+01	ug/g	S	PRIMARY RESULT	TCD	La	9.97E+04	
t107	Lanthanum	3/1/93	B08VB9	1.19	8.38E+01	ug/g	S	PRIMARY RESULT	TCD	La	9.97E+04	
c112	Lanthanum	3/1/92	B08DN8	1.6	6.15E+01	ug/g	S	PRIMARY RESULT	TCD	La	9.84E+04	
B110	Lanthanum	4/1/90	Core Composite 10	1.34	7.34E+01	ug/g	I	DUPLICATE	B110 Core Data	La	9.83E+04	
B110	Lanthanum	4/1/90	Core Composite 10	1.34	7.34E+01	ug/g	I	PRIMARY	B110 Core Data	La	9.83E+04	
B110	Lanthanum	4/1/90	Core Composite 18	1.37	6.98E+01	ug/g	I	PRIMARY	B110 Core Data	La	9.56E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	7.04E+01	ug/g	I	PRIMARY	B110 Core Data	La	9.36E+04	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	6.81E+01	ug/g	I	DUPLICATE	B110 Core Data	La	9.05E+04	
U110	Lanthanum	12/1/89	Core Composite 12	1.42	6.30E+01	ug/g	I	DUPLICATE	U110 Core Data	La	8.95E+04	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	6.90E+01	ug/g	I	PRIMARY	U110 Core Data	La	8.90E+04	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	6.57E+01	ug/g	I	PRIMARY	B110 Core Data	La	8.74E+04	
B110	Lanthanum	4/1/90	Core Composite 4	1.36	6.36E+01	ug/g	I	DUPLICATE	B110 Core Data	La	8.65E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	7.20E+01	ug/g	S	DUPLICATE RESULT	TCD	La	8.64E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 3	1.3	6.56E+01	ug/g	I	PRIMARY	B110 Core Data	La	8.53E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 4	1.93	4.30E+01	ug/g	I	DUPLICATE	U110 Core Data	La	8.30E+04	
U110	Lanthanum	12/1/89	Core 12 Segment 4	1.48	5.60E+01	ug/g	I	DUPLICATE	U110 Core Data	La	8.29E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 1	1.78	4.50E+01	ug/g	I	PRIMARY	U110 Core Data	La	8.01E+04	
U110	Lanthanum	12/1/89	Core 6 Segment 4	1.8	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.92E+04	
U110	Lanthanum	12/1/89	Core Composite 7	1.675	4.70E+01	ug/g	I	PRIMARY	U110 Core Data	La	7.87E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 4	1.3	5.99E+01	ug/g	I		B110 Core Data	La	7.78E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 3	1.53	5.00E+01	ug/g	I	PRIMARY	U110 Core Data	La	7.65E+04	
TY103	La(3+)	10/1/79		1.5	5.10E-03	wt %	K	saltcake	RAW	La	7.65E+04	
U110	Lanthanum	12/1/89	Core Composite 7	1.675	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.37E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 3	1.53	4.80E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.34E+04	
U110	Lanthanum	12/1/89	Core 6 Segment 2	1.59	4.60E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.31E+04	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	5.38E+01	ug/g	I	DUPLICATE	B110 Core Data	La	7.31E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.54E+01	ug/g	S	PRIMARY RESULT	TCD	La	7.26E+04	
U110	La	11/15/89	89-046		45	ugm/gm	G	Sludge	Braun	La	7.20E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 4	1.62	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.13E+04	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	5.50E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.10E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 1	1.5	4.70E+01	ug/g	I	PRIMARY	U110 Core Data	La	7.05E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 1	1.5	4.70E+01	ug/g	I	DUPLICATE	U110 Core Data	La	7.05E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.38E+01	ug/g	S	DUPLICATE RESULT	TCD	La	7.01E+04	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	5.11E+01	ug/g	I	PRIMARY	B110 Core Data	La	6.95E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 4	1.93	3.60E+01	ug/g	I	PRIMARY	U110 Core Data	La	6.95E+04	
B110	Lanthanum	4/1/90	Core Composite 18	1.37	5.07E+01	ug/g	I	DUPLICATE	B110 Core Data	La	6.95E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 3	1.3	5.30E+01	ug/g	I	DUPLICATE	B110 Core Data	La	6.89E+04	
U110	Lanthanum	12/1/89	Core Composite 8		4.30E+01	ug/g	I	PRIMARY	U110 Core Data	La	6.88E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.24E+01	ug/g	S	DUPLICATE RESULT	TCD	La	6.78E+04	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	4.40E+01	ug/g	I	PRIMARY	U110 Core Data	La	6.78E+04	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.78E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.21E+01	ug/g	S	PRIMARY RESULT	TCD	La	6.74E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 2	1.3	5.12E+01	ug/g	I	DUPLICATE	B110 Core Data	La	6.65E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 2	1.46	4.50E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.57E+04	
B203	La	12/4/78	2782	1.09	0.006	wt.%	G	Sludge	Braun	La	6.54E+04	
U110	Lanthanum	12/1/89	Core Composite 14	1.48	4.40E+01	ug/g	I	PRIMARY	U110 Core Data	La	6.51E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Lanthanum	12/1/89	Core Composite 14	1.48	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.51E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.01E+01	ug/g	S	DUPLICATE RESULT	TCD	La	6.42E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	4.01E+01	ug/g	S	PRIMARY RESULT	TCD	La	6.42E+04	
U110	Lanthanum	12/1/89	Core 6 Segment 3	1.22	5.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.34E+04	
U110	Lanthanum	12/1/89	Core Composite 12	1.42	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.25E+04	
U110	Lanthanum	12/1/89	Core Composite 14	1.48	4.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.22E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 5	1.3	4.75E+01	ug/g	I		B110 Core Data	La	6.18E+04	
U110	Lanthanum	12/1/89	Core 13 Segment 4	1.46	4.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	6.13E+04	
U110	Lanthanum	12/1/89	Core 6 Segment 4	1.8	3.40E+01	ug/g	I	PRIMARY	U110 Core Data	La	6.12E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	3.82E+01	ug/g	S	PRIMARY RESULT	TCD	La	6.11E+04	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	4.40E+01	ug/g	I	DUPLICATE	B110 Core Data	La	5.98E+04	
U110	Lanthanum	12/1/89	Core Composite 8		3.70E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.92E+04	
c112	Lanthanum	3/1/92	B08DM7	1.6	3.69E+01	ug/g	S	DUPLICATE RESULT	TCD	La	5.90E+04	
U110	Lanthanum	12/1/89	Core Composite 6	1.54	3.80E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.85E+04	
U110	Lanthanum	12/1/89	Core 15 Segment 2	1.27	4.60E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.84E+04	
U110	Lanthanum	12/1/89	Core 13 Segment 4	1.46	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.84E+04	
U110	Lanthanum	12/1/89	Core 7 Segment 2	1.46	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.84E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 4	1.62	3.60E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.83E+04	
U110	Lanthanum	12/1/89	Core Composite 13	1.3	4.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.72E+04	
B110	Lanthanum	4/1/90	Core Composite 1	1.36	4.14E+01	ug/g	I	DUPLICATE	B110 Core Data	La	5.63E+04	
U110	Lanthanum	12/1/89	Core 15 Segment 2	1.27	4.40E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.59E+04	
U110	Lanthanum	12/1/89	Core 6 Segment 3	1.22	4.50E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.49E+04	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	4.20E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.42E+04	
U110	Lanthanum	12/1/89	Core Composite 15	1.29	4.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.42E+04	
U110	Lanthanum	12/1/89	Core Composite 14	1.48	3.60E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.33E+04	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	3.91E+01	ug/g	I	PRIMARY	B110 Core Data	La	5.32E+04	
U110	Lanthanum	12/1/89	Core 15 Segment 3	1.3	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	La	5.20E+04	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	5.00E+01	ug/g	I	DUPLICATE	U110 Core Data	La	5.20E+04	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	4.80E+01	ug/g	I	PRIMARY	U110 Core Data	La	4.99E+04	
B110	Lanthanum	4/1/90	Core Composite 9	1.32	3.73E+01	ug/g	I	DUPLICATE	B110 Core Data	La	4.93E+04	
B110	Lanthanum	4/1/90	Core Composite 9	1.32	3.73E+01	ug/g	I	PRIMARY	B110 Core Data	La	4.93E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 3	1.3	3.79E+01	ug/g	I	DUPLICATE	B110 Core Data	La	4.92E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 3	1.3	3.79E+01	ug/g	I	PRIMARY	B110 Core Data	La	4.92E+04	
T112	La				8.48E+02	g-moles	S		TRAC	La	4.91E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 4	1.3	3.74E+01	ug/g	I		B110 Core Data	La	4.86E+04	
U110	Lanthanum	12/1/89	Core 5 Segment 4		2.90E+01	ug/g	I	PRIMARY	U110 Core Data	La	4.64E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 5	1.3	3.56E+01	ug/g	I		B110 Core Data	La	4.63E+04	
c112	Lanthanum	3/1/92	B08DN6	1.3	3.34E+01	ug/g	S	PRIMARY RESULT	TCD	La	4.34E+04	
t107	Lanthanum	3/1/93	B08TZ2	1.29	3.32E+01	ug/g	S	DUPLICATE RESULT	TCD	La	4.28E+04	
U110	Lanthanum	12/1/89	Core Composite 5	1.04	4.10E+01	ug/g	I	DUPLICATE	U110 Core Data	La	4.26E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 4	1.3	3.24E+01	ug/g	I		B110 Core Data	La	4.22E+04	
U110	Lanthanum	12/1/89	Core 12 Segment 3	1	4.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	4.20E+04	
c109	Lanthanum	9/1/92	B08T15	1.2	3.50E+01	ug/g	S	PRIMARY RESULT	TCD	La	4.20E+04	
c112	Lanthanum	3/1/92	B08DN6	1.3	3.21E+01	ug/g	S	DUPLICATE RESULT	TCD	La	4.17E+04	
U110	Lanthanum	12/1/89	Core 5 Segment 4		2.60E+01	ug/g	I	DUPLICATE	U110 Core Data	La	4.16E+04	
c112	Lanthanum	3/1/92	B08DN6	1.3	3.20E+01	ug/g	S	PRIMARY RESULT	TCD	La	4.16E+04	
c112	Lanthanum	3/1/92	B08DN6	1.3	3.17E+01	ug/g	S	DUPLICATE RESULT	TCD	La	4.12E+04	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	3.05E+01	ug/g	I	DUPLICATE	B110 Core Data	La	4.06E+04	
U110	Lanthanum	12/1/89	Core 12 Segment 3	1	4.00E+01	ug/g	I	PRIMARY	U110 Core Data	La	4.00E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 4	1.3	2.99E+01	ug/g	I		B110 Core Data	La	3.89E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 2	1.3	2.96E+01	ug/g	I	DUPLICATE	B110 Core Data	La	3.85E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 2	1.39	2.70E+01	ug/g	I	PRIMARY	U110 Core Data	La	3.75E+04	
B110	Lanthanum	4/1/90	Core Composite 4	1.36	2.63E+01	ug/g	I	PRIMARY	B110 Core Data	La	3.58E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 2	1.39	2.40E+01	ug/g	I	DUPLICATE	U110 Core Data	La	3.34E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.64E+01	ug/g	S	DUPLICATE RESULT	TCD	La	3.30E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.64E+01	ug/g	S	PRIMARY RESULT	TCD	La	3.30E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 3	1.4	2.30E+01	ug/g	I	PRIMARY	U110 Core Data	La	3.22E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.60E+01	ug/g	S	DUPLICATE RESULT	TCD	La	3.22E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.60E+01	ug/g	S	PRIMARY RESULT	TCD	La	3.22E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.59E+01	ug/g	S	DUPLICATE RESULT	TCD	La	3.20E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.59E+01	ug/g	S	DUPLICATE RESULT	TCD	La	3.20E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.59E+01	ug/g	S	PRIMARY RESULT	TCD	La	3.20E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	1.57E+01	ug/g	S	PRIMARY RESULT	TCD	La	3.16E+04	
U110	Lanthanum	12/1/89	Core 14 Segment 3	1.4	2.20E+01	ug/g	I	DUPLICATE	U110 Core Data	La	3.08E+04	
U110	Lanthanum	12/1/89	Core Composite 13	1.3	2.30E+01	ug/g	I	PRIMARY	U110 Core Data	La	2.99E+04	
U110	Lanthanum	12/1/89	Core Composite 13	1.3	2.30E+01	ug/g	I	DUPLICATE	U110 Core Data	La	2.99E+04	
B110	Lanthanum	4/1/90	Core Composite 18	1.37	1.63E+01	ug/g	I	PRIMARY	B110 Core Data	La	2.24E+04	
B110	Lanthanum	4/1/90	CORE 4 SEGMENT 2	1.3	1.62E+01	ug/g	I	PRIMARY	B110 Core Data	La	2.10E+04	
B110	Lanthanum	4/1/90	CORE 10 SEGMENT 5	1.36	1.42E+01	ug/g	I		B110 Core Data	La	1.92E+04	
U110	Lanthanum	12/1/89	Core 5 Segment 3	1.04	1.80E+01	ug/g	I	PRIMARY	U110 Core Data	La	1.87E+04	
c112	Lanthanum	3/1/92	B08DN8	1.6	1.16E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.86E+04	
S104	La	4/13/90			1.84E-02	g/L	G	Sludge	Wastren	La	1.84E+04	
c112	Lanthanum	3/1/92	B08DN8	1.6	1.12E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.79E+04	
B110	Lanthanum	4/1/90	Core Composite 18	1.37	1.30E+01	ug/g	I	DUPLICATE	B110 Core Data	La	1.78E+04	
t107	Lanthanum	3/1/93	B08VR2	1.735	9.90E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.72E+04	
t107	Lanthanum	3/1/93	B08VR2	1.735	9.88E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.71E+04	
t105	Lanthanum	5/28/93	B08WT4	2.01	8.47E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.70E+04	
s104	Lanthanum	8/1/92	B08TL3	1.6	1.05E+01	mg/kg	S	DUPLICATE RESULT	TCD	La	1.68E+04	
s104	Lanthanum	8/1/92	B08TL3		1.05E+01	mg/kg	S	DUPLICATE RESULT	TCD	La	1.68E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	1.40E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.68E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t105	Lanthanum	5/28/93	B08WT4	2.01	8.33E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.67E+04	
s104	Lanthanum	8/1/92	B08TL4	1.6	1.04E+01	mg/kg	S	DUPLICATE RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TL4		1.04E+01	mg/kg	S	DUPLICATE RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TL3	1.6	1.04E+01	mg/kg	S	PRIMARY RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TL4	1.6	1.04E+01	mg/kg	S	PRIMARY RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TL3		1.04E+01	mg/kg	S	PRIMARY RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TL4		1.04E+01	mg/kg	S	PRIMARY RESULT	TCD	La	1.66E+04	
s104	Lanthanum	8/1/92	B08TJ4	1.6	9.94E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.59E+04	
s104	Lanthanum	8/1/92	B08TJ4		9.94E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.59E+04	
t107	Lanthanum	3/1/93	B08TZ2	1.29	1.23E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.59E+04	
s104	Lanthanum	8/1/92	B08TJ4	1.6	9.88E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.58E+04	
s104	Lanthanum	8/1/92	B08TJ4		9.88E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.58E+04	
s104	Lanthanum	8/1/92	B08TJ5	1.6	9.80E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.57E+04	
s104	Lanthanum	8/1/92	B08TJ5		9.80E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.57E+04	
t107	Lanthanum	3/1/93	B08V39	1.57	9.96E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.56E+04	
t107	Lanthanum	3/1/93	B08V39	1.57	9.96E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.56E+04	
s104	Lanthanum	8/1/92	B08TJ5	1.6	9.77E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.56E+04	
s104	Lanthanum	8/1/92	B08TJ5		9.77E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.56E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	1.30E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.56E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	1.30E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.56E+04	
t107	Lanthanum	3/1/93	B08VF0	1.38	9.94E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.37E+04	
t107	Lanthanum	3/1/93	B08VF0	1.38	9.92E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.37E+04	
t107	Lanthanum	3/1/93	B08VF0	1.38	9.86E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.36E+04	
t107	Lanthanum	3/1/93	B08VF0	1.38	9.84E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.36E+04	
B110	Lanthanum	4/1/90	CORE 2 SEGMENT 2	1.24	1.05E+01	ug/g	I	DUPLICATE	B110 Core Data	La	1.30E+04	
B110	Lanthanum	4/1/90	CORE 2 SEGMENT 2	1.24	1.05E+01	ug/g	I	PRIMARY	B110 Core Data	La	1.30E+04	
t107	Lanthanum	3/1/93	B08VD9	1.305	9.96E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.30E+04	
t107	Lanthanum	3/1/93	B08TZ2	1.29	1.00E+01	ug/g	S	PRIMARY RESULT	TCD	La	1.29E+04	
t107	Lanthanum	3/1/93	B08TZ2	1.29	9.94E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.28E+04	
s104	Lanthanum	8/1/92	B08TF6	1.6	8.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.28E+04	
s104	Lanthanum	8/1/92	B08TF6		8.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.28E+04	
s104	Lanthanum	8/1/92	B08TF6	1.6	8.00E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.28E+04	
s104	Lanthanum	8/1/92	B08TF6		8.00E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.28E+04	
BX107	La	10/20/92	J926-AV		7.992	ugm/gm	G	Sludge/Composite	Braun	La	1.28E+04	
BX107	La	10/20/92	J927-AV		7.992	ugm/gm	G	Sludge/Composite	Braun	La	1.28E+04	
BX107	La	10/20/92	J924-AV		7.984	ugm/gm	G	Sludge/Composite	Braun	La	1.28E+04	
BX107	La	10/20/92	J925-AV		7.9681	ugm/gm	G	Sludge/Composite	Braun	La	1.27E+04	
s104	Lanthanum	8/1/92	B08TF7	1.6	7.94E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.27E+04	
s104	Lanthanum	8/1/92	B08TF7		7.94E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	1.27E+04	
s104	Lanthanum	8/1/92	B08TF7	1.6	7.89E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.26E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Lanthanum	8/1/92	B08TF7		7.89E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.26E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	1.00E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.20E+04	
t107	Lanthanum	3/1/93	B08VB9	1.19	9.98E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.19E+04	
t107	Lanthanum	3/1/93	B08VB9	1.19	9.92E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.18E+04	
B110	Lanthanum	4/1/90	CORE 9 SEGMENT 5	1.24	9.45E+00	ug/g	I		B110 Core Data	La	1.17E+04	
B110	Lanthanum	4/1/90	CORE 9 SEGMENT 5	1.24	9.45E+00	ug/g	I		B110 Core Data	La	1.17E+04	
c109	Lanthanum	9/1/92	B08T16	1.3	9.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.17E+04	
t107	Lanthanum	3/1/93	B08V43	1.15	1.00E+01	ug/g	S	DUPLICATE RESULT	TCD	La	1.15E+04	
t107	Lanthanum	3/1/93	B08V43	1.15	9.75E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.12E+04	
t107	Lanthanum	3/1/93	B08V43	1.15	9.40E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.08E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	9.00E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.08E+04	
c109	Lanthanum	9/1/92	B08T17	1.2	9.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.08E+04	
t107	Lanthanum	3/1/93	B08V44	1.1	9.73E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.07E+04	
t107	Lanthanum	3/1/93	B08V43	1.15	9.24E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.06E+04	
t107	Lanthanum	3/1/93	B08V44	1.1	9.65E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.06E+04	
t107	Lanthanum	3/1/93	B08V44	1.1	9.62E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.06E+04	
t107	Lanthanum	3/1/93	B08V44	1.1	9.60E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.06E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
t107	Lanthanum	3/1/93	B08TZ3	0.95	9.90E+00	ug/g	S	DUPLICATE RESULT	TCD	La	9.41E+03	
t107	Lanthanum	3/1/93	B08TZ3	0.95	9.90E+00	ug/g	S	PRIMARY RESULT	TCD	La	9.41E+03	
B110	Lanthanum	4/1/90	CORE 9 SEGMENT 1	1.23	7.59E+00	ug/g	I		B110 Core Data	La	9.34E+03	
B110	Lanthanum	4/1/90	CORE 9 SEGMENT 1	1.23	7.59E+00	ug/g	I		B110 Core Data	La	9.34E+03	
c109	Lanthanum	9/1/92	B08T16	1.3	7.00E+00	ug/g	S	DUPLICATE RESULT	TCD	La	9.10E+03	
c109	Lanthanum	9/1/92	B08T16	1.3	7.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	9.10E+03	
c109	Lanthanum	9/1/92	B08T17	1.2	7.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	8.40E+03	
t105	Lanthanum	5/28/93	B08WT2	0.89	8.40E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	7.48E+03	
t105	Lanthanum	5/28/93	B08WT2	0.89	8.37E+00	mg/kg	S	PRIMARY RESULT	TCD	La	7.45E+03	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	4.89E+00	ug/g	I	DUPLICATE	B110 Core Data	La	6.65E+03	
c109	Lanthanum	9/1/92	B08T16	1.3	5.00E+00	ug/g	S	DUPLICATE RESULT	TCD	La	6.50E+03	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	4.69E+00	ug/g	I	DUPLICATE	B110 Core Data	La	6.24E+03	
C102	La	1/21/88	E1XCOOXX		3.76E+00	PPM	S	Raw Acid	RAW	La	6.02E+03	
s104	Lanthanum	8/1/92	B08S50	1.6	3.13E+00	mg/kg	S	PRIMARY RESULT	TCD	La	5.01E+03	
s104	Lanthanum	8/1/92	B08S50		3.13E+00	mg/kg	S	PRIMARY RESULT	TCD	La	5.01E+03	
s104	Lanthanum	8/1/92	B08S50	1.6	2.71E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	4.34E+03	
s104	Lanthanum	8/1/92	B08S50		2.71E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	4.34E+03	
BX107	La	10/20/92	J925-AV		2.14	ugm/gm	G	Sludge/Composite	Braun	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL3	1.6	2.14E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL4	1.6	2.14E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL3		2.14E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL4		2.14E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.42E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Lanthanum	8/1/92	B08TL3	1.6	2.14E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL4	1.6	2.14E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL3		2.14E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TL4		2.14E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.42E+03	
s104	Lanthanum	8/1/92	B08TJ5	1.6	2.12E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.39E+03	
s104	Lanthanum	8/1/92	B08TJ5		2.12E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.39E+03	
s104	Lanthanum	8/1/92	B08TJ5	1.6	2.12E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.39E+03	
s104	Lanthanum	8/1/92	B08TJ5		2.12E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.39E+03	
s104	Lanthanum	8/1/92	B08S48	1.6	2.10E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.36E+03	
s104	Lanthanum	8/1/92	B08TJ4	1.6	2.10E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.36E+03	
s104	Lanthanum	8/1/92	B08S48		2.10E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.36E+03	
s104	Lanthanum	8/1/92	B08TJ4		2.10E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.36E+03	
s104	Lanthanum	8/1/92	B08TJ4	1.6	2.10E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.36E+03	
s104	Lanthanum	8/1/92	B08TJ4		2.10E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.36E+03	
B110	Lanthanum	4/1/90	Core Composite 3	1.36	2.44E+00	ug/g	I	PRIMARY	B110 Core Data	La	3.32E+03	
s104	Lanthanum	8/1/92	B08TJ5	1.6	2.07E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.31E+03	
s104	Lanthanum	8/1/92	B08TJ5		2.07E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.31E+03	
s104	Lanthanum	8/1/92	B08TL3	1.6	2.07E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.31E+03	
s104	Lanthanum	8/1/92	B08TL3		2.07E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.31E+03	
s104	Lanthanum	8/1/92	B08TJ5	1.6	2.06E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.30E+03	
s104	Lanthanum	8/1/92	B08S48	1.6	2.06E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.30E+03	
s104	Lanthanum	8/1/92	B08S48		2.06E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.30E+03	
s104	Lanthanum	8/1/92	B08TJ5		2.06E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.30E+03	
s104	Lanthanum	8/1/92	B08S48	1.6	2.03E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08S48		2.03E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08TJ4	1.6	2.03E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08TL4	1.6	2.03E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08TJ4		2.03E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08TL4		2.03E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.25E+03	
s104	Lanthanum	8/1/92	B08TL3	1.6	2.02E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.23E+03	
s104	Lanthanum	8/1/92	B08TL3		2.02E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.23E+03	
s104	Lanthanum	8/1/92	B08TL4	1.6	2.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.20E+03	
s104	Lanthanum	8/1/92	B08TJ4	1.6	2.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.20E+03	
s104	Lanthanum	8/1/92	B08TJ4		2.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.20E+03	
s104	Lanthanum	8/1/92	B08TL4		2.00E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.20E+03	
B110	Lanthanum	4/1/90	Core Composite 2	1.33	2.35E+00	ug/g	I	PRIMARY	B110 Core Data	La	3.12E+03	
s104	Lanthanum	8/1/92	B08S46	1.6	1.94E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.10E+03	
s104	Lanthanum	8/1/92	B08S46		1.94E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.10E+03	
s104	Lanthanum	8/1/92	B08S48	1.6	1.92E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.07E+03	
s104	Lanthanum	8/1/92	B08S48		1.92E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.07E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Lanthanum	8/1/92	B08S46	1.6	1.91E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.06E+03	
s104	Lanthanum	8/1/92	B08S46		1.91E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.06E+03	
s104	Lanthanum	8/1/92	B08S46	1.6	1.91E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.06E+03	
s104	Lanthanum	8/1/92	B08S46		1.91E+00	mg/kg	S	PRIMARY RESULT	TCD	La	3.06E+03	
s104	Lanthanum	8/1/92	B08S46	1.6	1.90E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.04E+03	
s104	Lanthanum	8/1/92	B08S46		1.90E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	3.04E+03	
t111	Lanthanum	11/1/91	B08ST5	0.88	3.21E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.82E+03	
t111	Lanthanum	11/1/91	B08ST5	0.88	2.97E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.61E+03	
BX107	La	10/20/92	J924-AV		1.63035	ugm/gm	G	Sludge/Composite	Braun	La	2.61E+03	
BX107	La	10/20/92	J926-AV		1.63035	ugm/gm	G	Sludge/Composite	Braun	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF7	1.6	1.63E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF7		1.63E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF6	1.6	1.63E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF7	1.6	1.63E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF6		1.63E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.61E+03	
s104	Lanthanum	8/1/92	B08TF7		1.63E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.61E+03	
BX107	La	10/20/92	J927-AV		1.6255	ugm/gm	G	Sludge/Composite	Braun	La	2.60E+03	
s104	Lanthanum	8/1/92	B08TF6	1.6	1.62E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.59E+03	
s104	Lanthanum	8/1/92	B08TF6		1.62E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.59E+03	
t107	Lanthanum	3/1/93	B08T22	1.29	2.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.58E+03	
t107	Lanthanum	3/1/93	B08T22	1.29	1.99E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.57E+03	
s104	Lanthanum	8/1/92	B08S50	1.6	1.59E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.54E+03	
s104	Lanthanum	8/1/92	B08S50		1.59E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.54E+03	
s104	Lanthanum	8/1/92	B08TF7	1.6	1.58E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.53E+03	
s104	Lanthanum	8/1/92	B08TF7		1.58E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.53E+03	
s104	Lanthanum	8/1/92	B08TF6	1.6	1.55E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.48E+03	
s104	Lanthanum	8/1/92	B08TF6		1.55E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.48E+03	
BX107	La	10/20/92	J925-AV		1.54	ugm/gm	G	Sludge/Composite	Braun	La	2.46E+03	
s104	Lanthanum	8/1/92	B08TF7	1.6	1.53E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.45E+03	
s104	Lanthanum	8/1/92	B08TF7		1.53E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.45E+03	
s104	Lanthanum	8/1/92	B08TF6	1.6	1.53E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.45E+03	
s104	Lanthanum	8/1/92	B08TF6		1.53E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.45E+03	
BX107	La	10/20/92	J926-AV		1.52	ugm/gm	G	Sludge/Composite	Braun	La	2.43E+03	
s104	Lanthanum	8/1/92	B08S50	1.6	1.51E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.42E+03	
s104	Lanthanum	8/1/92	B08S50		1.51E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.42E+03	
BX107	La	10/20/92	J924-AV		1.49	ugm/gm	G	Sludge/Composite	Braun	La	2.38E+03	
t107	Lanthanum	3/1/93	B08VB9	1.19	2.00E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.38E+03	
BX107	La	10/20/92	J927-AV		1.48	ugm/gm	G	Sludge/Composite	Braun	La	2.37E+03	
t107	Lanthanum	3/1/93	B08VB9	1.19	1.98E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.36E+03	
t104	Lanthanum	8/26/92	B08S09	1.13	2.08E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.35E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Single-Shell Tank Solids [Sketch ES-VAL-CC26]
 ASA Value: 5.02E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L		
t104	Lanthanum	8/26/92	B08S09	1.13	2.08E+00	mg/kg	S	DUPLICATE RESULT	TCD	La	2.35E+03		
t107	Lanthanum	3/1/93	B08VF0	1.38	1.70E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.35E+03		
t107	Lanthanum	3/1/93	B08VF0	1.38	1.69E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.33E+03		
t104	Lanthanum	8/26/92	B08S09	1.13	2.06E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.33E+03		
t107	Lanthanum	3/1/93	B08VF0	1.38	1.68E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.32E+03		
t104	Lanthanum	8/26/92	B08S09	1.13	2.05E+00	mg/kg	S	PRIMARY RESULT	TCD	La	2.32E+03		
t107	Lanthanum	3/1/93	B08VF0	1.38	1.67E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.30E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.99E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.29E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.99E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.29E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.98E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.28E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.98E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.28E+03		
t107	Lanthanum	3/1/93	B08TZ2	1.29	1.70E+00	ug/g	S	DUPLICATE RESULT	TCD	La	2.19E+03		
B110	Lanthanum	4/1/90	Core Composite 18	1.37	1.60E+00	ug/g	I	PRIMARY	B110 Core Data	La	2.19E+03		
t107	Lanthanum	3/1/93	B08TZ2	1.29	1.65E+00	ug/g	S	PRIMARY RESULT	TCD	La	2.13E+03		
T111	La	8/7/92	J-398	0.88	2.3	ugm/gm	G	Sludge	Braun	La	2.02E+03		
t111	Lanthanum	11/1/91	B08ST5	0.88	2.26E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.99E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.69E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.94E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.67E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.92E+03		
b202	Lanthanum	6/7/91	B08SP5	0.87	2.20E+00	mg/kg	S	PRIMARY RESULT	TCD	La	1.91E+03		
C102	La	2/1/91	2		1.00E+00	mg/kg	S	water leach	RAW	La	1.60E+03		
t105	Lanthanum	5/28/93	B08WT2	0.89	1.75E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.56E+03		
t105	Lanthanum	5/28/93	B08WT2	0.89	1.74E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.55E+03		
B110	Lanthanum	4/1/90	Core Composite 18	1.37	1.10E+00	ug/g	I	DUPLICATE	B110 Core Data	La	1.50E+03		
t107	Lanthanum	3/1/93	B08V43	1.15	1.30E+00	ug/g	S	PRIMARY RESULT	TCD	La	1.50E+03		
t111	Lanthanum	11/1/91	B08ST5	0.88	1.61E+00	ug/g	S	DUPLICATE RESULT	TCD	La	1.42E+03		
C102	La	1/21/88	E1XCOOXX		5.62E-01	PPM	S	Raw PARR	RAW	La	8.99E+02		
b202	Lanthanum	6/7/91	B08SP5	0.87	6.94E-01	mg/kg	S	DUPLICATE RESULT	TCD	La	6.04E+02		
b202	Lanthanum	6/7/91	B08SP5	0.87	6.60E-01	mg/kg	S	PRIMARY RESULT	TCD	La	5.74E+02		
b202	Lanthanum	6/7/91	B08SP5	0.87	6.60E-01	mg/kg	S	PRIMARY RESULT	TCD	La	5.74E+02		
b202	Lanthanum	6/7/91	B08SP5	0.87	6.58E-01	mg/kg	S	PRIMARY RESULT	TCD	La	5.72E+02		
b202	Lanthanum	6/7/91	B08SP5	0.87	4.90E-01	mg/kg	S	PRIMARY RESULT	TCD	La	4.26E+02		
C102	La	2/1/91	2		5.00E-02	ug/mL	S	water leach	RAW	La	5.00E+01		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S106	Na TOT	6/4/75			2.44E+03	g/L	P	Supernate	Wastren	Na	2.44E+09	19
TX115	Na TOT	2/10/81	Na TOT	1.268	3.47E+00	M	L		RAW	Na	6.96E+08	6
SX104	Na	5/14/88		1.8042	1.69E+01	M	L	Bottom Acid Leach	RAW	Na	3.88E+08	11
Preliminary ASA Value: 3.57E+08 ug/L												11
SX104	Na	5/14/88		1.8042	1.59E+01	M	L	Bottom Acid Leach	RAW	Na	3.65E+08	11
SX104	Na	5/14/88	RAT-SX104-3	1.5	15.5	moles/l	P	Supernate	Braun	Na	3.57E+08	11
SX104	Na	5/14/88		1.5	1.55E+01	M	L		RAW	Na	3.57E+08	11
SX104	Na	5/14/88			3.56E+02	g/L	L	Drainable Liquid	Wastren	Na	3.56E+08	11
B108	Na				1.83E+05	g-moles	L		TRAC	Na	3.36E+08	4
SX104	Na	5/14/88		1.9688	1.45E+01	M	L	Top Water Leach	RAW	Na	3.34E+08	11
ASA Value: 3.27E+08 ug/L												
S106	Na	12/16/74	T-8035	1.5414	14.2	moles/l	P	Supernate	Braun	Na	3.27E+08	*
S104	Na	8/12/74	T-4184	1.4456	13.82	moles/l	P	Supernate	Braun	Na	3.18E+08	
TX105	Na	1/21/74	T-805		13.82	moles/l	P	Supernate	Braun	Na	3.18E+08	
S104	Na	8/12/74	T-4184	1.4456	1.38E+01	M	L		RAW	Na	3.18E+08	
TX105	Na	1/21/74	T-805		1.38E+01	M	O	green	RAW	Na	3.18E+08	
SX104	Na	5/14/88		1.4816	1.37E+01	M	L	Top Acid Leach	RAW	Na	3.16E+08	
BX104	Na	10/29/74	T-9245	1.121	13.5	moles/l	L	Liquor	Braun	Na	3.11E+08	
BX104	Na	10/29/74	T-9245	1.121	1.35E+01	M	L		RAW	Na	3.11E+08	
BY106	Na	6/3/91	R-8093	1.47	210000	ppm	P	Supernate	Braun	Na	3.09E+08	
BY106	Na	6/3/91	R-8093	1.47	2.10E+05	ppm	P	Supernatant	RAW	Na	3.09E+08	
A101	Na	10/13/80	RAT-A101-1	1.306	13.36	moles/l	P	Supernate	Braun	Na	3.07E+08	
A101	Na TOT	10/13/80		1.306	1.34E+01	M	P	Supernatant	RAW	Na	3.07E+08	
BY106	Na	6/3/91	R-8083	1.46	210000	ppm	P	Supernate	Braun	Na	3.07E+08	
BY106	Na	6/3/91	R-8083	1.46	2.10E+05	ppm	P	Supernatant	RAW	Na	3.07E+08	
AX101	Na	11/11/80	RAT-AX101-2	1.36	13.07	moles/l	P	Supernate	Braun	Na	3.01E+08	
AX101	Na TOT	11/11/80		1.36	1.31E+01	M	F	Two feet below surface - Filtrate	RAW	Na	3.01E+08	
SX104	Na TOT	3/15/76	Na TOT	1.49	1.18E+01	M	L	Liquor	RAW	Na	2.89E+08	
TY102	Na				3.00E+06	g-moles	L		TRAC	Na	2.89E+08	
BX106	Na	12/4/74	T-8441	1.4901	12.55	moles/l	P	Supernate	Braun	Na	2.89E+08	
BX106	Na	12/4/74	T-8441	1.4901	1.26E+01	M	O	< 10% Solids	RAW	Na	2.89E+08	
BY103	Na	6/3/91	R-8088	1.45	199000	ppm	P	Supernate	Braun	Na	2.89E+08	
BY103	Na	6/3/91	R-8088	1.45	1.99E+05	ppm	P	Supernatant	RAW	Na	2.89E+08	
S102	Na	10/21/74	T-6761	1.4669	12.51	moles/l	P	Supernate	Braun	Na	2.88E+08	
S102	Na	10/21/74	T-6761	1.4669	1.25E+01	M	L		RAW	Na	2.88E+08	
A101	Na TOT	11/11/80		1.45	1.23E+01	M	F	Filtrate	RAW	Na	2.82E+08	
TX108	Na				2.97E+06	g-moles	L		TRAC	Na	2.82E+08	
BY106	Na	10/14/71	RAT-BY106-1	1.453	12.2	moles/l	P	Supernate	Braun	Na	2.81E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information													
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Analyte Information				ID
									Source	Analyte	ug/L		
TX118	Na TOT	5/20/75	Na TOT	1.375	1.17E+01	M	L						
BY102	Na	6/3/91	R-8091	1.41	196000	ppm	P		RAW	Na	2.77E+08		
BY102	Na	6/3/91	R-8091	1.41	1.96E+05	ppm	P	Supernate	Braun	Na	2.76E+08		
TX103	Na	3/1/76	T-2955	1.4	12.01	moles/l	P	Supernatant	RAW	Na	2.76E+08		
TX103	Na	3/1/76	T-2955	1.4	1.20E+01	M	O	Supernate	Braun	Na	2.76E+08		
TX112	Na	1/21/74	T-832		11.95	moles/l	P	30% Solids light green	RAW	Na	2.76E+08		
BY103	Na	10/14/71	RAT-BY103-1	1.47	11.9	moles/l	P	Supernate	Braun	Na	2.75E+08		
BY112	Na	4/4/72	RAT-BY112-2	1.42	19.1	wt. %	L	Supernate	Braun	Na	2.74E+08		
A101	Na	10/13/80	RAT-A101-2	1.277	11.785	moles/l	P	Liquid	Braun	Na	2.71E+08		
A101	Na TOT	10/13/80		1.277	1.18E+01	M	P	Supernate	Braun	Na	2.71E+08		
BY112	Na	4/4/72			2.71E+02	g/L	P	Supernatant	RAW	Na	2.71E+08		
S102	Na	12/17/74	T-8008	1.4202	11.61	moles/l	P	Supernate	Wastren	Na	2.71E+08		
TX117	Na	7/20/71			11.6	M	P	Supernate	Braun	Na	2.67E+08		
TX111	Na	9/3/74	T-8452	1.5559	11.52	moles/l	P		RAW	Na	2.67E+08		
TX111	Na	6/12/75	T-8452	1.5559	1.15E+01	M	U	Supernate	Braun	Na	2.65E+08		
S112	Na TOT	7/8/74	Na TOT	1.501	1.14E+01	M	P	green	RAW	Na	2.65E+08		
A102	Na	12/23/80	RAT-A102-1	1.44	11.41	moles/l	F	Supernatant	RAW	Na	2.63E+08		
A102	Na TOT	12/23/80		1.44	1.14E+01	M	F	Filtrate	Braun	Na	2.62E+08		
BX102	Na	9/30/74			2.62E+02	g/L	P	Filtrate	RAW	Na	2.62E+08		
BX102	Na	9/30/74	T-8511	1.4669	11.39	moles/l	P	Supernate	Wastren	Na	2.62E+08		
BX102	Na	9/30/74	T-8511	1.4669	1.14E+01	M	L	Supernate	Braun	Na	2.62E+08		
S105	Na TOT	3/13/74	Na TOT	1.462	1.12E+01	M	L		RAW	Na	2.62E+08		
TX108	Na TOT	2/10/81	Na TOT	1.377	2.66E+00	M	U	Liquids	RAW	Na	2.61E+08		
TX110	Na	8/4/79	RAT-TX110-1	1.419	11.25	moles/l	P		RAW	Na	2.59E+08		
C101	Na				3.15E+05	g-moles	L	Supernate	Braun	Na	2.59E+08		
BY102	Na	6/3/91	R-8081	1.42	182000	ppm	P		TRAC	Na	2.59E+08		
BY102	Na	6/3/91	R-8081	1.42	1.82E+05	ppm	P	Supernate	Braun	Na	2.58E+08		
A102	Na	3/8/86	92XDOOXX	1.51	257000	mg/l	L	Supernatant	RAW	Na	2.58E+08		
A102	Sodium	5/19/87	92XDXXXX		2.57E+05	mg/L	L	Liquor	Braun	Na	2.57E+08		
A102	Sodium	5/19/87	92XDXXXX		2.57E+05	mg/L	L	Drainable Liquor	RAW	Na	2.57E+08		
S108	Na TOT	7/8/74	Na TOT	1.513	1.12E+01	M	P	Drainable Liquor	RAW	Na	2.57E+08		
BY112	Na	5/29/71			1.12E+01	M	P	Supernatant	RAW	Na	2.57E+08		
S106	Na TOT	6/4/75	Na TOT	1.45	1.08E+01	M	P	Supernatant	RAW	Na	2.57E+08		
A106	Sodium	5/19/87	A2XDXXXX		2.56E+05	mg/L	L	Supernate	RAW	Na	2.56E+08		
A106	Sodium	5/19/87	A2XDXXXX		2.56E+05	mg/L	L	Drainable Liquor	RAW	Na	2.56E+08		
A106	Na	3/13/86	A2XDOOXX	1.36	255000	mg/l	L	Drainable Liquor	RAW	Na	2.56E+08		
A106	Na	3/13/86			2.55E+02	g/L	L	Liquor	Braun	Na	2.55E+08		
S102	Na TOT	3/28/80	T-8101	1.4018	1.08E+01	M	L	Drainable Liquid	Wastren	Na	2.55E+08		
BY109	Na	6/3/91	R-8094	1.4	181000	ppm	P	Liquor	RAW	Na	2.55E+08		
								Supernate	Braun	Na	2.53E+08		

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BY109	Na	6/3/91	R-8094	1.4	1.81E+05	ppm	P	Supernatant	RAW	Na	2.53E+08	
S111	Na	8/25/78	RAT-S111-3	1.5	11	moles/l	P	Supernate	Braun	Na	2.53E+08	
S111	Na	8/25/78		1.5	1.10E+01	M	P	Supernate	RAW	Na	2.53E+08	
A103	Na	3/26/86	B1XD00XX	1.476	252000	mg/l	L	Liquor	Braun	Na	2.52E+08	
A103	Sodium	5/19/87	B1XD00XD		2.52E+05	mg/L	L	Drainable Liquor	RAW	Na	2.52E+08	
A103	Sodium	5/19/87	B1XD00XD		2.52E+05	mg/L	L	Drainable Liquor	RAW	Na	2.52E+08	
BX110	Na TOT	5/20/75		1.414	1.09E+01	M	L		RAW	Na	2.52E+08	
S106	Na	1/21/74	T-738	1.4913	10.94	moles/l	P	Supernate	Braun	Na	2.52E+08	
S106	Na	1/21/74	T-738	1.4913	1.09E+01	M	L		RAW	Na	2.52E+08	
A101	Na TOT	11/10/80		1.47	1.07E+01	M	F	Filtrate	RAW	Na	2.47E+08	
TX118	Na	2/25/75	T-9434	1.5346	10.64	moles/l	P	Supernate	Braun	Na	2.45E+08	
TX118	Na	2/25/75	T-9434	1.5346	1.06E+01	M	O	green, 10% solids	RAW	Na	2.45E+08	
BY109	Na	11/20/90	R8084	1.37	1.78E+05	ppm	P	Supernatant	RAW	Na	2.44E+08	
A102	Na	12/23/80	RAT-A102-2	1.452	10.57	moles/l	F	Filtrate	Braun	Na	2.43E+08	
A102	Na TOT	12/23/80		1.452	1.06E+01	M	F	Filtrate	RAW	Na	2.43E+08	
SX108	Na +	4/1/61		1.712	2.42E+02	g/l	P	Supernatant	RAW	Na	2.42E+08	
S109	Na	9/16/74	T-4544	1.7607	10.45	moles/l	P	Supernate	Braun	Na	2.40E+08	
S109	Na	9/16/74	T-4544	1.7607	1.05E+01	M	L		RAW	Na	2.40E+08	
TX115	Na	1/17/74	T-834		10.44	moles/l	P	Supernate	Braun	Na	2.40E+08	
TX115	Na	1/17/74	T-834		1.04E+01	M	O	green-yellow, 25% solids	RAW	Na	2.40E+08	
AX101	Na	11/11/80	RAT-AX101-3	1.391	10.436	moles/l	P	Supernate	Braun	Na	2.40E+08	
AX101	Na TOT	11/11/80		1.391	1.04E+01	M	F	Four feet below surface - Filtrate	RAW	Na	2.40E+08	
S107	Na	10/16/78	4251	1.525	10.4	moles/l	P	Supernate	Braun	Na	2.39E+08	
BY106	Na	4/13/72	7394	1.414	10.32	moles/l	P	Supernate	Braun	Na	2.37E+08	
BY106	Na	4/13/72	7394	1.414	1.03E+01	M	L	33'10"	RAW	Na	2.37E+08	
SX102	Na	9/3/80		1.555	1.03E+01	mol/l	L	AL (original)	RAW	Na	2.37E+08	
BY106	Na	11/20/90	R8083		2.11E+05	ppm	P	Supernatant	RAW	Na	2.32E+08	
SX104	Na	10/21/74	T-7326	1.4618	10.09	moles/l	P	Supernate	Braun	Na	2.32E+08	
SX104	Na	10/21/74	T-7326		1.01E+01	M	L		RAW	Na	2.32E+08	
S106	Na TOT	8/21/74	Na TOT	1.429	1.00E+01	M	P	Supernate	RAW	Na	2.31E+08	
S106	Na TOT	9/21/71	Na TOT	1.429	1.01E+01	M	L	Liquor	RAW	Na	2.31E+08	
A106	Na TOT	5/23/80	T-12	1.39	1.00E+01	M	L	Feed Liquor	RAW	Na	2.31E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.45	10	moles/l	P	Supernate	Braun	Na	2.30E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.58	10	moles/l	P	Supernate	Braun	Na	2.30E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.6	10	moles/l	P	Supernate	Braun	Na	2.30E+08	
SX106	Na	2/28/77		1.45	1.00E+01	M	P	Supernatant	RAW	Na	2.30E+08	
BY109	Na	6/3/91	R-8084	1.3	176000	ppm	P	Supernate	Braun	Na	2.29E+08	
BY109	Na	6/3/91	R-8084	1.3	1.76E+05	ppm	P	Supernatant	RAW	Na	2.29E+08	
S102	Na	1/2/75	T-1091	1.58	9.93	moles/l	P	Supernate	Braun	Na	2.28E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
S102	Na	1/2/75	T-1091	1.58	9.93E+00	M	L	No solids	RAW	Na	2.28E+08	
TX110	Na	3/15/65	RAT-TX110-3	1.418	228	gm/l	P	Supernate	Braun	Na	2.28E+08	
TX102	Na +	9/24/65		1.418	2.28E+02	g/l	U	sludge	RAW	Na	2.28E+08	
BY106	Na	4/13/72	7395	1.415	9.85	moles/l	P	Supernate	Braun	Na	2.27E+08	
BY106	Na	4/13/72	7395	1.415	9.85E+00	M	L	surface	RAW	Na	2.27E+08	
TX103	Na	4/9/76	T-4138	1.43	9.8	moles/l	P	Supernate	Braun	Na	2.25E+08	
TX112	Na TOT	2/10/81	Na TOT	1.454	9.53E+00	M	L		RAW	Na	2.24E+08	
BY105	Na	6/3/91	R-8092	1.4	160000	ppm	P	Supernate	Braun	Na	2.24E+08	
BY105	Na	6/3/91	R-8092	1.4	1.60E+05	ppm	P	Supernatant	RAW	Na	2.24E+08	
TX113	Na	1/18/74			2.23E+02	g/L	P	Supernate	Wastren	Na	2.23E+08	
TX113	Na	1/18/74	T-848		9.69	moles/l	P	Supernate	Braun	Na	2.23E+08	
TX113	Na	1/18/74	T-848		9.69	M	O	murky yellow, 10% solids	RAW	Na	2.23E+08	
S111	Na TOT	8/21/74	Na TOT	1.414	9.69E+00	M	P	Supernatant	RAW	Na	2.23E+08	
S111	Na	8/25/78	1009-C	1.44	9.6	moles/l	P	Supernate	Braun	Na	2.21E+08	
S111	Na	8/25/78	1009-C	1.46	9.6	moles/l	P	Supernate	Braun	Na	2.21E+08	
TX108	Na	1/21/74	T-656	1.403	9.6	moles/l	P	Supernate	Braun	Na	2.21E+08	
S111	Na	8/25/78		1.46	9.60E+00	M	P	Supernate	RAW	Na	2.21E+08	
BY105	Na	6/3/91	R-8082	1.38	160000	ppm	P	Supernate	Braun	Na	2.21E+08	
BY105	Na	6/3/91	R-8082	1.38	1.60E+05	ppm	P	Supernatant	RAW	Na	2.21E+08	
S105	Na	10/5/73	T-9491	1.25	9.56	moles/l	P	Supernate	Braun	Na	2.20E+08	
S105	Na	10/5/73	T-9491	1.25	9.56E+00	M	L	Clear, yellow	RAW	Na	2.20E+08	
BY103	Na	11/14/90			1.99E+05	ppm	P	Supernatant	RAW	Na	2.19E+08	
TX110	Na	2/10/81	RAT-TX110-2	1.388	9.44	moles/l	P	Supernate	Braun	Na	2.17E+08	
TX110	Na	2/3/81	RAT-TX110-4	1.388	9.44	moles/l	P	Supernate	Braun	Na	2.17E+08	
S111	Na TOT	8/25/78	Na TOT	1.5	9.15E+00	M	P	Supernate	RAW	Na	2.17E+08	
TX104	Na	4/19/76			2.17E+02	g/L	P	Supernate	Wastren	Na	2.17E+08	
TX104	Na	4/19/76	T-4391	1.4	9.43	moles/l	P	Supernate	Braun	Na	2.17E+08	
TX104	Na	9/17/76	T-4391	1.40	9.43	M	O	dark brown	RAW	Na	2.17E+08	
TX108	Na	1/2/75	T-1139	1.4632	9.39	moles/l	P	Supernate	Braun	Na	2.16E+08	
U109	Na TOT	11/12/75	RAT-U109-1	1.24			P	Supernate	Braun	Na	2.15E+08	
BX111	Na	3/16/90	R-6041	1.44	9.33	moles/l	P	Supernate	Braun	Na	2.15E+08	
BX111	Na	3/16/90	R6041	1.14	9.33E+00	M	P	Supernatant	RAW	Na	2.15E+08	
BX111	Na	3/16/90			2.14E+02	g/L	P	Supernate	Wastren	Na	2.14E+08	
A106	Na	3/11/86	A1XDOOXX	1.35	213000	mg/l	L	Liquor	Braun	Na	2.13E+08	
A106	Sodium	5/19/87	A1XDXXXX		2.13E+05	mg/L	L	Drainable Liquor	RAW	Na	2.13E+08	
A106	Sodium	5/19/87	A1XDXXXX		2.13E+05	mg/L	L	Drainable Liquor	RAW	Na	2.13E+08	
A101	Na	11/10/80	RAT-A101-9B	1.43	9.22	moles/l	F	Filtrate	Braun	Na	2.12E+08	
A101	Na TOT	11/10/80		1.43	9.22E+00	M	F	Filtrate	RAW	Na	2.12E+08	
TX106	Na	8/19/76	T-6312	1.437	9.19	moles/l	P	Supernate	Braun	Na	2.11E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TX106	Na	12/8/76	T-6312	1.437	9.19	M	L	green	RAW	Na	2.11E+08	
S102	Na TOT	3/28/80			2.11E+02	g/L	P	Supernate	Wästren	Na	2.11E+08	
S105	Na	1/21/74	T-737	1.4833	9.14	moles/l	P	Supernate	Braun	Na	2.10E+08	
S105	Na	1/21/74	T-737	1.4833	9.14E+00	M	L		RAW	Na	2.10E+08	
A101	Na TOT	11/2/79		1.052	9.01E+00	M	L	Liquor	RAW	Na	2.07E+08	
S101	Na	9/21/71		1.412	9.01E+00	M	L		RAW	Na	2.07E+08	
TX104	Na	3/15/65	RAT-TX104-1	1.38	204	gm/l	P	Supernate	Braun	Na	2.04E+08	
TX104	Na +	9/24/65		1.382	2.04E+02	g/l	L		RAW	Na	2.04E+08	
TX109	Na	2/2/76	T-2034	1.386	8.86	moles/l	P	Supernate	Braun	Na	2.04E+08	
TX109	Na	2/2/76	T-2034	1.386	8.86	M	L	brown	RAW	Na	2.04E+08	
A102	Na	3/14/89	R-4656	1.57	8.72	moles/l	P	Supernate	Braun	Na	2.01E+08	
A102	Na	3/15/89		1.57	8.72E+00	M	L	Liquid	RAW	Na	2.01E+08	
TX111	Na TOT	2/10/81	Na TOT	1.416	8.02E+00	M	L		RAW	Na	2.00E+08	
BY102	Na	11/20/90	R-8081		1.82E+05	PPM	P	Supernatant	RAW	Na	2.00E+08	
TX109	Na TOT	2/10/81	Na TOT	1.421	7.76E+00	M	L		RAW	Na	2.00E+08	
T108	Na	3/15/65	RAT-T108-1		200	gm/l	U	Unknown	Braun	Na	2.00E+08	
A102	Na	3/14/89			2.00E+02	g/L	P	Supernate	Wästren	Na	2.00E+08	
S111	Na TOT	8/25/78	Na TOT	1.46	8.40E+00	M	P	Supernate	RAW	Na	2.00E+08	
S103	Na	10/5/73	T-9490	1.3517	8.68	moles/l	P	Supernate	Braun	Na	2.00E+08	
S103	Na	10/5/73	T-9490	1.3517	8.68E+00	M	L	Clear, yellow	RAW	Na	2.00E+08	
TX108	Na	9/25/75	T-8261	1.358	8.63	moles/l	P	Supernate	Braun	Na	1.98E+08	
TX108	Na	9/25/75	T-8261	1.358	8.63	M	L	yellow	RAW	Na	1.98E+08	
TX110	Na TOT	2/10/81	Na TOT	1.388	8.63E+00	M	L		RAW	Na	1.98E+08	
U102	Na	2/26/74	T-1968	1.3817	8.52	moles/l	P	Supernate	Braun	Na	1.96E+08	
A101	Na	10/22/80	RAT-A101-3	1.445	8.51	moles/l	F	Filtrate	Braun	Na	1.96E+08	
A101	Na TOT	10/22/80		1.445	8.51E+00	M	F	Filtrate	RAW	Na	1.96E+08	
S102	Na	7/14/75	T-6042	1.34	8.48	moles/l	P	Supernate	Braun	Na	1.95E+08	
S102	Na	9/21/71		1.317	8.48E+00	M	L		RAW	Na	1.95E+08	
S102	Na	7/14/75	T-6042	1.34	8.48E+00	M	L		RAW	Na	1.95E+08	
S102	Na TOT	5/20/75	Na TOT	1.333	8.12E+00	M	L	Alkaline Waste	RAW	Na	1.94E+08	
S111	Na	9/21/71		1.219	8.40E+00	M	L		RAW	Na	1.93E+08	
AX102	Na TOT	1/23/80		1.404	8.36E+00	M	L	Product Liquor	RAW	Na	1.92E+08	
SX106	Na TOT	2/25/77	Na TOT	1.458	7.87E+00	M	L	Solution	RAW	Na	1.92E+08	
TX118	Na	2/25/75	T-9991	1.397	8.34	moles/l	P	Supernate	Braun	Na	1.92E+08	
TX118	Na	2/25/75	T-9991	1.397	8.34E+00	M	O	green, 2% solids	RAW	Na	1.92E+08	
S106	Na	10/5/73	T-9492	1.2262	8.32	moles/l	P	Supernate	Braun	Na	1.91E+08	
S106	Na	10/5/73	T-9492	1.2262	8.32E+00	M	L	Clear, yellow	RAW	Na	1.91E+08	
A103	Na	4/3/86	B2XD00XX	1.48	188000	mg/l	L	Liquor	Braun	Na	1.88E+08	
A103	Sodium	5/19/87	B1XD00XD		1.88E+05	mg/L	L	Drainable Liquor	RAW	Na	1.88E+08	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
A103	Sodium	5/19/87	B1XD00XD		1.88E+05	mg/L	L	Drainable Liquor	RAW	Na	1.88E+08	
A103	Na	4/3/86			1.88E+02	g/L	L	Drainable Liquid	Wastren	Na	1.88E+08	
TX109	Na	12/28/75	T-1035	1.398	8.16	moles/l	P	Supernate	Braun	Na	1.88E+08	
TX109	Na	12/28/75	T-1035	1.398	8.16	M	L	dark brown	RAW	Na	1.88E+08	
S108	Na	10/5/73	T-9493	1.2455	8.14	moles/l	P	Supernate	Braun	Na	1.87E+08	
S108	Na	10/5/73	T-9493	1.2455	8.14E+00	M	L	Clear, yellow	RAW	Na	1.87E+08	
S102	Na	1/20/76	T-1683	1.39	8.1	moles/l	P	Supernate	Braun	Na	1.86E+08	
U111	Na	5/25/76	9762	1.25	8.08	moles/l	P	Supernate	Braun	Na	1.86E+08	
SX111	Na	9/16/74	T-4283	1.4836	8.05E+00	M	L	No Solids	RAW	Na	1.85E+08	
U103	Na	3/15/65	RAT-U103-2	1.387	185	gm/l	U	Unknown	Braun	Na	1.85E+08	
U103	Na +	3/15/65		1.387	1.85E+02	g/l	L		RAW	Na	1.85E+08	
SX103	Na TOT	4/11/75	Na TOT	1.38	7.48E+00	M	P	Supernatant	RAW	Na	1.84E+08	
S108	Na TOT	6/30/74			1.84E+02	g/L	P	Supernate	Wastren	Na	1.84E+08	
BX110	Na				4.30E+06	g-moles	L		TRAC	Na	1.82E+08	
S102	Na	9/3/75	T-7703	1.3308	7.79	moles/l	P	Supernate	Braun	Na	1.79E+08	
S102	Na	9/3/75	T-7703	1.3308	7.79E+00	M	L	No solids	RAW	Na	1.79E+08	
BY105	Na	11/20/90	R-8082		1.63E+05	PPM	P	Supernatant	RAW	Na	1.79E+08	
SX106	Na TOT	2/25/77	RAT-SX106-1	1.458			P	Supernate	Braun	Na	1.78E+08	
TX107	Na	4/28/75	T-3975	1.3804	7.69	moles/l	P	Supernate	Braun	Na	1.77E+08	
TX107	Na	10/27/75	T-3975	1.3804	7.69E+00	M	L	yellow	RAW	Na	1.77E+08	
A106	Na-TOT	5/23/80	RAT-A106-1	1.39	---	---	L	Liquor	Braun	Na	1.77E+08	
TX118	Na	2/3/77	RAT-TX118-1	1.26	7.674	moles/l	L	Liquor	Braun	Na	1.77E+08	
TX118	Na	1/28/80	RAT-TX118-1	1.341	7.674	moles/l	L	Liquor	Braun	Na	1.77E+08	
TX118	Na	1/28/80	RAT-TX118-3	1.333	7.6494	moles/l	L	Liquor	Braun	Na	1.76E+08	
S102	Na	11/16/73	T-459	1.2927	7.63E+00	M	L		RAW	Na	1.75E+08	
S102	Na	10/7/75	T-8634	1.19	7.6	moles/l	P	Supernate	Braun	Na	1.75E+08	
S102	Na	10/7/75	T-8634	1.19	7.60E+00	M	L		RAW	Na	1.75E+08	
S102	Na	11/3/75	T-9394	1.326	7.5	moles/l	P	Supernate	Braun	Na	1.73E+08	
S102	Na	11/3/75	T-9394	1.326	7.50E+00	M	L	No solids	RAW	Na	1.73E+08	
BX111	Na				5.24E+06	g-moles	L		TRAC	Na	1.72E+08	
C106	Na	4/1/90	RAT-C106-4A		156000	ugm/gm	U	Unknown	Braun	Na	1.72E+08	
S107	Na	9/7/78	3148	1.208	7.46	moles/l	P	Supernate	Braun	Na	1.72E+08	
S107	Na	9/7/78			7.46E+00	M	L		RAW	Na	1.72E+08	
TX105	Na TOT	2/10/81	Na TOT	1.356	6.37E+00	M	L		RAW	Na	1.72E+08	
BY109	Na				2.26E+06	g-moles	L		TRAC	Na	1.69E+08	
AX102	Na	11/14/88	RAT-AX102-3		7.32	moles/l	P	Supernate	Braun	Na	1.68E+08	
AX102	Na	8/1/88			7.32E+00	M	P	supernate	RAW	Na	1.68E+08	
A102	Na	3/6/86	91XD00XX	1.52	168000	mg/l	L	Liquor	Braun	Na	1.68E+08	
A102	Sodium	5/19/87	91XDXXXX		1.68E+05	mg/L	L	Drainable Liquor	RAW	Na	1.68E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
A102	Sodium	5/19/87	91XDXXXX		1.68E+05	mg/L	L	Drainable Liquor	RAW	Na	1.68E+08	
AX102	Na	11/14/88			1.68E+02	g/L	P	Supernate	Wastren	Na	1.68E+08	
AX102	Na	11/14/88			1.68E+02	g/L	P	Supernate	Wastren	Na	1.68E+08	
SX105	Na	11/19/74	T-7327	1.3444	7.22	moles/l	P	Supernate	Braun	Na	1.66E+08	
SX105	Na	11/19/74	T-7327	1.3444	7.22E+00	M	L	No Solids	RAW	Na	1.66E+08	
U106	Na	3/15/65	RAT-U106-1	1.3	166	gm/l	P	Supernate	Braun	Na	1.66E+08	
U106	Na +	3/15/65		1.303	1.66E+02	g/l	U	Evaporator Feed	RAW	Na	1.66E+08	
S102	Na	11/16/73	RAT-S102-4	1.29	7.18	moles/l	P	Supernate	Braun	Na	1.65E+08	
S102	Na	11/16/73	T-459	1.2927	7.18	moles/l	P	Supernate	Braun	Na	1.65E+08	
S106	Na				1.53E+07	g-moles	L		TRAC	Na	1.64E+08	
BX110	Na	3/16/90	R-6040	1.37	7.14	moles/l	P	Supernate	Braun	Na	1.64E+08	
BX110	Na	3/16/90	R6040	1.37	7.14E+00	M	P	Supernatant	RAW	Na	1.64E+08	
BX110	Na	3/16/90			1.64E+02	g/L	P	Supernate	Wastren	Na	1.64E+08	
TY106	Na				3.83E+05	g-moles	L		TRAC	Na	1.64E+08	
BX106	Na	4/21/75	T-3855	1.3739	7.1	moles/l	P	Supernate	Braun	Na	1.63E+08	
BX106	Na	4/21/75	T-3855	1.3739	7.10E+00	M	O	<10% Solids	RAW	Na	1.63E+08	
BX104	Na	2/14/86	71XD00XX	1.31	163000	mg/l	L	Liquor	Braun	Na	1.63E+08	
SX103	Na TOT	4/11/75	RAT-SX103-1B	1.38			P	Supernate	Braun	Na	1.62E+08	
BX106	Na	3/16/90	R-6037	1.33	7.05	moles/l	P	Supernate	Braun	Na	1.62E+08	
BX106	Na	3/16/90	R6037	1.33	7.05E+00	M	P	Supernatant	RAW	Na	1.62E+08	
BX106	Na	3/16/90			1.62E+02	g/L	P	Supernate	Wastren	Na	1.62E+08	
S102	Na TOT	3/28/80	T-8101	1.4018			L	Liquor	Braun	Na	1.62E+08	
BX109	Na TOT	5/20/75			6.97E+00	M	L	alkaline solution	RAW	Na	1.60E+08	
U103	Na	1/30/74	T-1542U	1.322	6.94	moles/l	P	Supernate	Braun	Na	1.60E+08	
U103	Na	1/30/74	T-1542	1.322	6.94E+00	M	L	No Solids	RAW	Na	1.60E+08	
S102	Na	6/17/74	T-3770	1.315	6.92	moles/l	P	Supernate	Braun	Na	1.59E+08	
S102	Na	6/17/74	T-3770	1.315	6.92E+00	M	L		RAW	Na	1.59E+08	
S108	Na	3/15/65	RAT-S108-3	1.296	158	gm/l	P	Supernate	Braun	Na	1.58E+08	
S108	Na +	3/15/65		1.296	1.58E+02	g/l	L		RAW	Na	1.58E+08	
C103	Na	1/24/75	T-1685	1.1729	6.83	moles/l	P	Supernate	Braun	Na	1.57E+08	
C103	Na	1/24/75	T-1685	1.1729	6.83E+00	M	O		RAW	Na	1.57E+08	
TX118	Na	12/22/75	T-864	1.31	6.8	moles/l	P	Supernate	Braun	Na	1.56E+08	
TX102	Na	2/2/76	T-1990	1.456	6.76	moles/l	P	Supernate	Braun	Na	1.55E+08	
TX102	Na	2/2/76	T-1990	1.456	6.76E+00	M	L	dark brown	RAW	Na	1.55E+08	
TX118	Na	2/25/75	T-9577	1.346	6.73	moles/l	P	Supernate	Braun	Na	1.55E+08	
TX118	Na	2/25/75	T-9577	1.346	6.73E+00	M	O	5% solids	RAW	Na	1.55E+08	
S102	Na	5/13/74	T-3601	1.2839	6.66	moles/l	P	Supernate	Braun	Na	1.53E+08	
S106	Na TOT	6/4/75	RAT-S106-3	1.45			P	Supernate	Braun	Na	1.53E+08	
TX110	Na +	9/24/65		1.333	1.52E+02	g/l	L		RAW	Na	1.52E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TX104	Na	9/17/74	T-5118	1.2365	6.58	moles/l	P	Supernate	Braun	Na	1.51E+08	
TX104	Na	9/17/74	T-5118	1.2365	6.58	M	L	amber yellow	RAW	Na	1.51E+08	
S108	Na	9/21/71		1.291	6.54E+00	M	L		RAW	Na	1.50E+08	
TX111	Na +	2/24/65		1.032	1.50E+02	g/l	L		RAW	Na	1.50E+08	
S105	NaOH	3/1/74	RAT-S105-1	1.462	6.47	moles/l	L	Liquor	Braun	Na	1.49E+08	
B102	Na TOT	6/29/73			6.39E+00	M	P	Supernatant	RAW	Na	1.47E+08	
SX101	Na	12/4/78	4523	1.52	6.358	moles/l	P	Supernate	Braun	Na	1.46E+08	
SX101	Na	12/4/78	4523	1.76	6.358	moles/l	P	Supernate	Braun	Na	1.46E+08	
SX101	Na TOT	12/4/78	4523	1.76	6.27E+00	M	P	Supernatant	RAW	Na	1.46E+08	
BY101	Na				8.15E+06	g-moles	L		TRAC	Na	1.46E+08	
TX118	Na +	9/24/65		1.041	1.45E+02	g/l	U		RAW	Na	1.45E+08	
SX106	Na TOT	4/18/78	8301	1.37			P	Supernate	Braun	Na	1.44E+08	
B102	Na	6/29/73	RAT-B102-1	1.249	6.28	moles/l	P	Supernate	Braun	Na	1.44E+08	
TY101	Na	3/15/65	RAT-TY101-1	1.315	144	gm/l	U	Unknown	Braun	Na	1.44E+08	
BY106	Na	6/3/91			1.44E+02	g/L	L	Drainable Liquid	Wastren	Na	1.44E+08	
SX106	Na TOT	4/18/78	8301	1.37	5.71E+00	M	P	Supernatant	RAW	Na	1.44E+08	
S102	Na	9/16/74	T-6006	1.256	6.13	moles/l	P	Supernate	Braun	Na	1.41E+08	
S102	Na	9/16/74	T-6006	1.256	6.13E+00	M	L		RAW	Na	1.41E+08	
BX109	Na	3/16/90	R-6039	1.34	6.11	moles/l	P	Supernate	Braun	Na	1.41E+08	
BX109	Na	3/16/90	R6039	1.34	6.11E+00	M	P	Supernatant	RAW	Na	1.41E+08	
C106	Na	9/1/76	6		1.27E+05	mg/kg	L	liquids	RAW	Na	1.40E+08	
S108	Na TOT	7/8/74	RAT-S108-4	1.513			P	Supernate	Braun	Na	1.40E+08	
BX109	Na	3/16/90			1.40E+02	g/L	P	Supernate	Wastren	Na	1.40E+08	
U109	Na TOT	11/12/75			1.38E+02	g/L	P	Supernate	Wastren	Na	1.38E+08	
U109	Na TOT	11/12/75	Na TOT	1.24	5.65E+00	M	P	Supernatant	RAW	Na	1.38E+08	
BY103	Na	6/3/91			1.37E+02	g/L	L	Drainable Liquid	Wastren	Na	1.37E+08	
SX102	Na	10/14/74	T-6736	1.2239	5.81	moles/l	P	Supernate	Braun	Na	1.34E+08	
SX102	Na	10/14/74		1.2239	5.81E+00	M	L	No Solids	RAW	Na	1.34E+08	
U106	Na	2/26/74			1.32E+02	g/L	P	Supernate	Wastren	Na	1.32E+08	
U106	Na	2/26/74	T-1970	1.3058	5.73	moles/l	P	Supernate	Braun	Na	1.32E+08	
U106	Na	2/26/74	T-1970	1.3058	5.73E+00	M	L	No Solids	RAW	Na	1.32E+08	
T101	Na	3/3/75	T-2381	1.3049	5.66	moles/l	P	Supernate	Braun	Na	1.30E+08	
T101	Na	10/27/75	T-2381	1.3049	5.66E+00	M	L	clear, yellow	RAW	Na	1.30E+08	
TX116	Na TOT	2/10/81	Na TOT	1.387	5.35E+00	M	L		RAW	Na	1.30E+08	
T107	Na	3/5/85			5.63E+00	M	L		RAW	Na	1.29E+08	
SX101	Na	11/20/74	T-6496	1.318	5.62	moles/l	P	Supernate	Braun	Na	1.29E+08	
SX101	Na	11/20/74		1.318	5.62E+00	M	L	No Solids	RAW	Na	1.29E+08	
BY109	Na	6/3/91			1.29E+02	g/L	P	Supernate	Wastren	Na	1.29E+08	
TX114	Na	1/21/74	T-833		5.57	moles/l	P	Supernate	Braun	Na	1.28E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX114	Na	1/21/74	T-833		5.57	M	L	clear yellow	RAW	Na	1.28E+08	
BX105	Na	3/3/86	81XD00XX	1.29	128000	mg/l	L	Liquor	Braun	Na	1.28E+08	
BX105	Sodium	5/19/87	B1XDXXXX		1.28E+05	mg/L	L	Drainable Liquor	RAW	Na	1.28E+08	
BX105	Sodium	5/19/87	B1XDXXXX		1.28E+05	mg/L	L	Drainable Liquor	RAW	Na	1.28E+08	
BY102	Na	6/3/91			1.28E+02	g/L	P	Supernate	Wastren	Na	1.28E+08	
C106	Na	3/15/76	T-3294	1.16	5.54	moles/l	P	Supernate	Braun	Na	1.27E+08	
TX109	Na	12/21/73	T-873		5.54	moles/l	P	Supernate	Braun	Na	1.27E+08	
C106	Na	3/15/76	T3294	1.162	5.54E+00	M	O		RAW	Na	1.27E+08	
TX109	Na	12/21/73	T-873		5.54	M	O	clear yellow, white solids	RAW	Na	1.27E+08	
T101	Na	3/25/74	T-2286	1.3058	5.52E+00	M	L	clear, yellow	RAW	Na	1.27E+08	
T101	Na	2/9/74	T-2286	1.306	5.5	moles/l	P	Supernate	Braun	Na	1.27E+08	
T101	Na				2.70E+06	g-moles	L		TRAC	Na	1.26E+08	
S109	Na	10/5/73	T-9494	1.249	5.46	moles/l	P	Supernate	Braun	Na	1.26E+08	
S102	Na	10/5/73	T-9488	1.2297	5.43E+00	M	L	No solids	RAW	Na	1.25E+08	
U203	Na	9/25/75	T-8246	1.224	5.38E+00	M	L	No Solids	RAW	Na	1.24E+08	
B105	Na				3.93E+06	g-moles	L		TRAC	Na	1.23E+08	
TX108	Na	3/15/65	RAT-TX108-2	1.246	122	gm/l	P	Supernate	Braun	Na	1.22E+08	
TX108	Na +	9/24/65		1.246	1.22E+02	g/l	L		RAW	Na	1.22E+08	
TY103	Na				3.03E+06	g-moles	L		TRAC	Na	1.22E+08	
BX107	Na	11/20/74	T-5921	1.238	5.29	moles/l	P	Supernate	Braun	Na	1.22E+08	
BX107	Na	11/20/74	T-5921	1.238	5.29E+00	M	L		RAW	Na	1.22E+08	
BY108	Na				6.89E+06	g-moles	L		TRAC	Na	1.21E+08	
BX105	Sodium	5/19/87	B2XDXXXX		1.20E+05	mg/L	L	Drainable Liquor	RAW	Na	1.20E+08	
BX105	Sodium	5/19/87	B2XDXXXX		1.20E+05	mg/L	L	Drainable Liquor	RAW	Na	1.20E+08	
BX106	Na	6/7/74	T-3766	1.194	5.22	moles/l	P	Supernate	Braun	Na	1.20E+08	
C104	Na	12/5/75	T-374	1.137	5.22	moles/l	P	Supernate	Braun	Na	1.20E+08	
BX106	Na	6/7/74	T-3766	1.194	5.22E+00	M	L		RAW	Na	1.20E+08	
C104	Na	12/5/75	T-374	1.137	5.22E+00	M	O		RAW	Na	1.20E+08	
BX105	Na	3/4/86	82XD00XX	1.29	120000	mg/l	L	Liquor	Braun	Na	1.20E+08	
BX105	Na	3/4/86			1.20E+02	g/L	P	Supernate	Wastren	Na	1.20E+08	
S102	Na	2/24/75	T-2278	1.1914	5.21	moles/l	P	Supernate	Braun	Na	1.20E+08	
S102	Na	2/24/75	T-2278		5.21E+00	M	L	No solids	RAW	Na	1.20E+08	
S102	Na	9/8/75	T-7748	1.2748	5.21E+00	M	L		RAW	Na	1.20E+08	
BY110	Na				9.90E+06	g-moles	L		TRAC	Na	1.19E+08	
TX109	Na				7.88E+06	g-moles	L		TRAC	Na	1.19E+08	
C103	Na	5/1/75	T-4073	1.16	5.16	moles/l	P	Supernate	Braun	Na	1.19E+08	
S104	Na				9.03E+05	g-moles	L		TRAC	Na	1.18E+08	
C104	Na	12/1/75	T-225	1.164	5.14	moles/l	P	Supernate	Braun	Na	1.18E+08	
C104	Na	12/1/75	T-225	1.164	5.14E+00	M	L		RAW	Na	1.18E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
BY104	Na				1.12E+07	g-moles	L		TRAC	Na	1.18E+08			
S106	Na	9/21/71		1.268	5.07E+00	M	L	Liquor	RAW	Na	1.17E+08			
SX107	Na	9/5/79	RAT-SX107-1	1.24	5.058	moles/l	P	Supernate	Braun	Na	1.16E+08			
SX107	Na	9/5/79			1.16E+02	g/L	P	Supernate	Wastren	Na	1.16E+08			
S102	Na	2/17/76	T-2395	1.25	5.03E+00	M	L	No solids	RAW	Na	1.16E+08			
C105	Na	4/11/86	C1XD00XX	1.23	114800	mg/l	L	Liquor	Braun	Na	1.15E+08			
C105	Sodium	5/19/87	C1XDXXXX		1.15E+05	mg/L	L	Drainable Liquor	RAW	Na	1.15E+08			
C105	Sodium	5/19/87	C1XDXXXX		1.15E+05	mg/L	L	Drainable Liquor	RAW	Na	1.15E+08			
BX106	Na	4/12/74	T-3060	1.2098	4.98	moles/l	P	Supernate	Braun	Na	1.15E+08			
BX106	Na	4/12/74	T-3060	1.2098	4.98E+00	M	L		RAW	Na	1.15E+08			
BY105	Na	6/3/91			1.14E+02	g/L	L	Drainable Liquid	Wastren	Na	1.14E+08			
TY104	Na +	9/18/80		1.57	7.26E+00	wt %	U	unknown	RAW	Na	1.14E+08			
S112	Na	1/7/74	T-181	1.1739	4.95	moles/l	P	Supernate	Braun	Na	1.14E+08			
S112	Na	1/7/74	T-181	1.1739	4.95E+00	M	L	No Solids	RAW	Na	1.14E+08			
U111	NA	9/21/71			4.93E+00	M	L		RAW	Na	1.13E+08			
U104	Na				2.33E+06	g-moles	L		TRAC	Na	1.13E+08			
BY106	Na				1.11E+07	g-moles	L		TRAC	Na	1.13E+08			
BY111	Na				1.12E+07	g-moles	L		TRAC	Na	1.11E+08			
B109	Na	10/6/75			1.10E+02	g/L	P	Supernate	Wastren	Na	1.10E+08			
TY104	Na	9/18/80		1.41	7.80E+00	wt %	U	unknown	RAW	Na	1.10E+08			
B109	Na	10/6/75	T-8578	1.282	4.77	moles/l	P	Supernate	Braun	Na	1.10E+08			
B109	Na	11/12/75		1.282	4.77E+00	M	L	yellow	RAW	Na	1.10E+08			
S105	Na TOT	3/1/74	RAT-S105-1	1.462			L	Liquor	Braun	Na	1.10E+08			
TX111	Na				7.09E+06	g-moles	L		TRAC	Na	1.09E+08			
TY104	Na +	8/22/79		1.41	7.68E+00	wt %	U	unknown	RAW	Na	1.08E+08			
T101	Na TOT	3/10/93	R-2846	1.21	4.05E+00	M	U	unknown	RAW	Na	1.07E+08			
AX104	Na	9/15/77	48JS#29-AL#2984		4.59E+00	M	P	Supernatant	RAW	Na	1.06E+08			
TX112	Na				1.16E+07	g-moles	L		TRAC	Na	1.05E+08			
TX118	Na	9/29/75	T-8404	1.229	4.57	moles/l	P	Supernate	Braun	Na	1.05E+08			
S106	NaOH	6/4/75	RAT-S106-3	1.45	4.44	moles/l	P	Supernate	Braun	Na	1.02E+08			
BX104	Na	2/26/86	72XD00XX	1.21	102000	mg/l	L	Liquor	Braun	Na	1.02E+08			
BX104	Na	2/26/86			1.02E+02	g/L	L	Drainable Liquid	Wastren	Na	1.02E+08			
TX110	Na				8.67E+06	g-moles	L		TRAC	Na	1.02E+08			
C110	Na	11/20/90	8087	1.2	8.40E+04	ppm	p	supernate	RAW	Na	1.01E+08			
C110	Na	6/3/91	R-8087	1.2	83900	ppm	P	Supernate	Braun	Na	1.01E+08			
c112	Sodium	3/1/92	B08DZ5	1.4	7.15E+04	ug/g	L	DUPLICATE RESULT	TCD	Na	1.00E+08			
c112	Sodium	3/1/92	B08DZ5	1.4	7.12E+04	ug/g	L	PRIMARY RESULT	TCD	Na	9.96E+07			
c112	Sodium	3/1/92	B08DZ5	1.4	7.02E+04	ug/g	L	PRIMARY RESULT	TCD	Na	9.83E+07			
TX118	Na	10/16/81	RAT-TX118-4		4.27	moles/l	P	Supernate	Braun	Na	9.82E+07			

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX118	Na	10/16/81			9.82E+01	g/L	P	Supernate	Wastren	Na	9.82E+07	
TX118	Na	10/16/81	RAT-TX118-5		4.26	moles/l	P	Supernate	Braun	Na	9.80E+07	
TX118	Na	10/16/81			4.26E+00	M	L		RAW	Na	9.80E+07	
c112	Sodium	3/1/92	B08DZ5	1.4	6.96E+04	ug/g	L	DUPLICATE RESULT	TCD	Na	9.75E+07	
BX107	Na	3/16/90	R-6038	1.22	4.22	moles/l	P	Supernate	Braun	Na	9.71E+07	
BX107	Na	3/16/90	R6038	1.22	4.22E+00	M	P	Supernatant	RAW	Na	9.71E+07	
BX107	Na	3/16/90			9.70E+01	g/L	P	Supernate	Wastren	Na	9.70E+07	
SX111	Na	8/1/75	RAT-SX111-1	1.21	4.1966	moles/l	P	Supernate	Braun	Na	9.65E+07	
SX111	Na	8/1/75	RAT-SX111-1	1.45	4.1966	moles/l	P	Supernate	Braun	Na	9.65E+07	
SX111	Na TOT	9/12/75	Na TOT	1.21	4.05E+00	M	P	Supernatant	RAW	Na	9.65E+07	
SX111	Na	8/1/75			9.65E+01	g/L	L	Drainable Liquid	Wastren	Na	9.65E+07	
t107	Sodium	3/1/93	B08V58	1.2	9.63E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	9.63E+07	
BY112	Na				2.06E+06	g-moles	L		TRAC	Na	9.62E+07	
U102	Na TOT	3/1/76	Na TOT		3.97E+00	M	P	Supernatant	RAW	Na	9.52E+07	
U102	Na	3/1/76	RAT-U102-1	1.27	4.14	moles/l	P	Supernate	Braun	Na	9.52E+07	
U102	Na	3/1/76	RAT-U102-1	1.38	4.14	moles/l	P	Supernate	Braun	Na	9.52E+07	
U102	Na	3/1/76	RAT-U102-1	1.6	4.14	moles/l	P	Supernate	Braun	Na	9.52E+07	
C106	Na	5/19/86	G1XDOOXX	1.22	94900	mg/l	L	Liquor	Braun	Na	9.49E+07	
C106	Sodium	5/19/87	G1XDXXXX		9.49E+04	mg/L	L	Drainable Liquor	RAW	Na	9.49E+07	
C106	Sodium	5/19/87	G1XDXXXX		9.49E+04	mg/L	L	Drainable Liquor	RAW	Na	9.49E+07	
T102	Na	3/13/74	T-2287	1.2382	4.12	moles/l	P	Supernate	Braun	Na	9.48E+07	
T103	Na	2/9/74	T-2287	1.2382	4.12E+00	M	L	clear yellow	RAW	Na	9.48E+07	
C110	Na	11/1/91	2	1.18	9.47E+04	ug/ml	L	core 39 seq. 3	RAW	Na	9.47E+07	
c110	Sodium	4/23/92	B08VH6	1.18	9.47E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	9.47E+07	
c110	Sodium	4/23/92	B08VH6	1.18	9.47E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	9.47E+07	
t107	Sodium	3/1/93	B08V58	1.2	9.47E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	9.47E+07	
T102	Na	3/13/74			9.47E+01	g/L	P	Supernate	Wastren	Na	9.47E+07	
C104	Na	12/18/75	T-769	1.16	4.04	moles/l	P	Supernate	Braun	Na	9.29E+07	
S102	NaOH	3/28/80	T-8101	1.4018	4.04	moles/l	L	Liquor	Braun	Na	9.29E+07	
C104	Na	12/18/75	T-769	1.16	4.04E+00	M	L		RAW	Na	9.29E+07	
C103	Na	1/3/75	T-1174	1.162	4.03	moles/l	P	Supernate	Braun	Na	9.27E+07	
C103	Na	1/3/75	T-1174	1.162	4.03E+00	M	L		RAW	Na	9.27E+07	
BY105	Na				8.72E+06	g-moles	L		TRAC	Na	9.25E+07	
B106	Na	10/6/75	T-8577	1.227	4	moles/l	P	Supernate	Braun	Na	9.20E+07	
T106	Na	6/18/73	T-7422		4	moles/l	P	Supernate	Braun	Na	9.20E+07	
B106	Na	12/1/75	T-8577	1.227	4.00E+00	M	L	yellow	RAW	Na	9.20E+07	
T106	Na	6/18/73	T-7422		4.00E+00	M	I	clear, yellow	RAW	Na	9.20E+07	
B106	Na	10/6/75			9.20E+01	g/L	P	Supernate	Wastren	Na	9.20E+07	
TX116	Na				5.71E+06	g-moles	L		TRAC	Na	9.17E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX105	Na	9/17/74	T-4927	1.213	3.96	moles/l	P	Supernate	Braun	Na	9.11E+07	
T105	Na	9/17/74	T-4927	1.213	3.96E+00	M	I	dark amber	RAW	Na	9.11E+07	
BX105	Na	10/16/75	T-8924	1.176	3.95	moles/l	L	Liquor	Braun	Na	9.09E+07	
BX105	Na	10/16/75	T-8924	1.176	3.95E+00	M	L		RAW	Na	9.09E+07	
C110	Na	11/1/91	1	1.18	9.04E+04	ug/ml	L	core 39 seg. 3	RAW	Na	9.04E+07	
c110	Sodium	4/23/92	B08VH6	1.18	9.04E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	9.04E+07	
c110	Sodium	4/23/92	B08VH6	1.18	9.04E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	9.04E+07	
T103	Na	3/13/74	T-2288	1.2482	3.93	moles/l	P	Supernate	Braun	Na	9.04E+07	
T103	Na	3/13/74	T-2288	1.2482	3.93E+00	M	L	clear yellow	RAW	Na	9.04E+07	
T103	Na	3/13/74			9.03E+01	g/L	P	Supernate	Wastren	Na	9.03E+07	
TX113	Na				8.23E+06	g-moles	L		TRAC	Na	9.02E+07	
U202	Na	9/25/75	T-8245	1.144	3.91	moles/l	P	Supernate	Braun	Na	8.99E+07	
U202	Na	9/25/75	T-8245	1.144	3.91E+00	M	L	No Solids	RAW	Na	8.99E+07	
U202	Na	9/25/75			8.99E+01	g/L	P	Supernate	Wastren	Na	8.99E+07	
BY103	Na +	12/20/55			3.90E+00	M	L		RAW	Na	8.97E+07	
C106	Na	9/1/76	8		8.14E+04	mg/kg	L	liquids	RAW	Na	8.96E+07	
S103	Na	12/6/74	T-8009	1.235	3.84	moles/l	P	Supernate	Braun	Na	8.83E+07	
S103	Na	12/6/74	T-8009	1.235	3.84E+00	M	L	Clear, yellow, no solids	RAW	Na	8.83E+07	
S103	Na	12/6/74			8.83E+01	g/L	P	Supernate	Wastren	Na	8.83E+07	
TY104	Na	8/6/85	241D0000	1.18	88100	mg/l	L	Liquor	Braun	Na	8.81E+07	
TY104	Na	8/6/85	241DXXXX	1.18	8.81E+04	mg/L	L	Drainable Liquor	RAW	Na	8.81E+07	
TY104	Sodium	9/30/85	232DXXXX		8.81E+04	mg/L	L	Drainable Liquor	RAW	Na	8.81E+07	
TY104	Sodium	9/30/85	241DXXXX		8.81E+04	mg/L	L	Drainable Liquor	RAW	Na	8.81E+07	
TY104	Na	8/6/85	211D0000	1.16	87100	mg/l	L	Liquor	Braun	Na	8.71E+07	
TY104	Na	8/6/85	211DXXXX	1.16	8.71E+04	mg/L	L	Drainable Liquor	RAW	Na	8.71E+07	
TY104	Sodium	9/30/85	211DXXXX		8.71E+04	mg/L	L	Drainable Liquor	RAW	Na	8.71E+07	
TY104	Sodium	9/30/85	211DXXXX		8.71E+04	mg/L	L	Drainable Liquor	RAW	Na	8.71E+07	
S111	NaOH	8/25/78	1009-C	1.44	3.77	moles/l	P	Supernate	Braun	Na	8.67E+07	
S111	NaOH	8/25/78	1009-C	1.46	3.77	moles/l	P	Supernate	Braun	Na	8.67E+07	
C112	Na	11/20/74	T-6185	1.21	3.75	moles/l	P	Supernate	Braun	Na	8.63E+07	
C112	Na	11/20/74	T-6185	1.2054	3.75E+00	M	L		RAW	Na	8.63E+07	
T109	Na	3/13/74	T-2289	1.1982	3.74	moles/l	P	Supernate	Braun	Na	8.60E+07	
T109	Na	5/13/74	T-2289	1.1982	3.74E+00	M	L	amber, clear	RAW	Na	8.60E+07	
T109	Na	3/13/74			8.60E+01	g/L	P	Supernate	Wastren	Na	8.60E+07	
S107	Na	12/17/74	T-8078	1.201	3.72	moles/l	P	Supernate	Braun	Na	8.56E+07	
S107	Na	12/17/74	T-8078	1.201	3.72E+00	M	L	No Solids	RAW	Na	8.56E+07	
B104	Na				1.41E+06	g-moles	L		TRAC	Na	8.47E+07	
S111	NaOH	8/25/78	RAT-S111-3	1.5	3.68	moles/l	P	Supernate	Braun	Na	8.46E+07	
B107	Na				2.20E+06	g-moles	L		TRAC	Na	8.29E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
A101	Na	6/25/74	T-5315		3.60E+00	M	O		RAW	Na	8.28E+07	
BY101	Na+	12/20/55			3.60E+00	M	L		RAW	Na	8.28E+07	
TY106	Na+	12/20/79		1.58	5.22E+00	wt %	L		RAW	Na	8.25E+07	
TX101	Na	7/24/75	T-6426	1.168	3.58E+00	M	U	dark brown	RAW	Na	8.23E+07	
C102	Na	6/3/91	R-8089	1.15	71000	ppm	P	Supernate	Braun	Na	8.17E+07	
C102	Na	11/20/90	8089	1.15	7.10E+04	ppm	P	supernate	RAW	Na	8.17E+07	
C106	Na	9/15/75	T-8059	1.18	3.54	moles/l	P	Supernate	Braun	Na	8.14E+07	
C106	Na	9/15/75	T-8059	1.8	3.54E+00	M	L	cruddy	RAW	Na	8.14E+07	
C106	Na	9/1/76	7		7.38E+04	mg/kg	L	liquids	RAW	Na	8.12E+07	
AX103	Na TOT	10/14/74		1.157	3.51E+00	M	P	Supernatant	RAW	Na	8.08E+07	
TX114	Na				8.52E+06	g-moles	L		TRAC	Na	8.07E+07	
A103	Na	11/13/72	RAT-A103-1	1.175	3.47	moles/l	P	Supernate	Braun	Na	7.98E+07	
C106	Na TOT	1/6/75		1.21	3.46E+00	M	P	Supernatant	RAW	Na	7.96E+07	
C106	Na TOT	1/24/77		1.21	3.46E+00	M	L		RAW	Na	7.96E+07	
BX112	Na	3/16/90	R-6042	1.2	3.46	moles/l	P	Supernate	Braun	Na	7.96E+07	
BX112	Na	3/16/90	R6042	1.2	3.46E+00	M	P	Supernatant	RAW	Na	7.96E+07	
BX112	Na	3/16/90			7.95E+01	g/L	P	Supernate	Wastren	Na	7.95E+07	
BY107	Na				4.03E+06	g-moles	L		TRAC	Na	7.89E+07	
BX105	Na	1/14/75	T-1437	1.2034	3.42	moles/l	L	Liquor	Braun	Na	7.87E+07	
BX105	Na	1/14/75	T-1437	1.2034	3.42E+00	M	L		RAW	Na	7.87E+07	
C105	Na	4/1/77		1.47	3.40E+00	M	L		RAW	Na	7.82E+07	
S107	Na	11/17/73	476	1.1592	3.39	moles/l	P	Supernate	Braun	Na	7.80E+07	
S107	Na	11/6/73	178	1.14	3.36	moles/l	P	Supernate	Braun	Na	7.73E+07	
S107	Na	11/6/73	178	1.14	3.36E+00	M	L	Feed Sample	RAW	Na	7.73E+07	
S108	NaOH	7/8/74	RAT-S108-4	1.513	5.08	wt.%	P	Supernate	Braun	Na	7.69E+07	
S105	Na				4.21E+06	g-moles	L		TRAC	Na	7.56E+07	
TY104	Na	8/12/85	232D0000	1.21	74800	mg/l	L	Liquor	Braun	Na	7.48E+07	
TY104	Na	8/6/85	232DXXXX	1.21	7.48E+04	mg/L	L	Drainable Liquor	RAW	Na	7.48E+07	
TY104	Sodium	9/30/85	232DXXXX		7.48E+04	mg/L	L	Drainable Liquor	RAW	Na	7.48E+07	
TY104	Sodium	9/30/85	232DXXXX		7.48E+04	mg/L	L	Drainable Liquor	RAW	Na	7.48E+07	
TY104	Na	8/12/85			7.48E+01	g/L	P	Supernate	Wastren	Na	7.48E+07	
C106	Na	9/8/75	T-7808	1.14	3.21	moles/l	P	Supernate	Braun	Na	7.38E+07	
C106	Na	3/3/76	T-7808	1.14	3.21E+00	M	O		RAW	Na	7.38E+07	
AX102	Na	1/23/80	RAT-AX102-1	1.113	3.2	moles/l	L	Liquor	Braun	Na	7.36E+07	
C104	Na	10/6/75	T-8583	1.227	3.2	moles/l	P	Supernate	Braun	Na	7.36E+07	
C104	Na	10/6/75	T-8583	1.227	3.20E+00	M	O		RAW	Na	7.36E+07	
AX102	Na TOT	1/23/80		1.113	3.20E+00	M	L	Feed Liquor	RAW	Na	7.35E+07	
T108	Na	5/12/74			7.20E+01	g/L	P	Supernate	Wastren	Na	7.20E+07	
AX103	Na	4/5/75	T-3363	1.157	3.13	moles/l	P	Supernate	Braun	Na	7.20E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
T108	Na	5/13/74	T-3391	1.1823	3.13	moles/l	P	Supernate	Braun	Na	7.20E+07	
T108	Na	5/13/74	T-3391	1.1823	3.13E+00	M	L	amber, clear	RAW	Na	7.20E+07	
SX106	NaOH	4/18/78	8301	1.33	3.1	moles/l	P	Supernate	Braun	Na	7.13E+07	
SX106	NaOH	4/18/78	8301	1.37	3.1	moles/l	P	Supernate	Braun	Na	7.13E+07	
C105	Na	4/1/90	RAT-C105-4A		64400	ugm/gm	U	Unknown	Braun	Na	7.08E+07	
C107	Na	6/3/91	R-8046	1.14	62000	ppm	P	Supernate	Braun	Na	7.07E+07	
C107	Na	6/3/91	R8086	1.14	6.20E+04	PPM	P	supernatant	RAW	Na	7.07E+07	
BX102	Na	1/27/70	T-83	1.03	3.07	moles/l	P	Supernate	Braun	Na	7.06E+07	
BX102	Na +	1/27/70	T-83	1.03	3.07E+00	M	L		RAW	Na	7.06E+07	
B202	Na				3.07E+05	g-moles	L		TRAC	Na	7.06E+07	
C110	Na	6/3/91			6.99E+01	g/L	P	Supernate	Wastren	Na	6.99E+07	
SX105	Na				6.85E+06	g-moles	L		TRAC	Na	6.95E+07	
C103	Na	3/28/75	T-3097	1.1434	3.01	moles/l	P	Supernate	Braun	Na	6.92E+07	
C103	Na	3/28/75	T-3097	1.1434	3.01E+00	M	L		RAW	Na	6.92E+07	
BX104	Na	8/15/75	T-7088	1.1285	2.99E+00	M	L		RAW	Na	6.88E+07	
C106	Na TOT	10/10/74	RAT-C106-2	1.21			P	Supernate	Braun	Na	6.77E+07	
S102	Na TOT	3/28/80	Na TOT	1.43	2.79E+00	M	P	Supernatant	RAW	Na	6.70E+07	
S101	Na	9/13/74	T-8084	1.205	2.9	moles/l	P	Supernate	Braun	Na	6.67E+07	
S101	Na	9/13/74	T-8084	1.205	2.90E+00	M	L	NO SOLID	RAW	Na	6.67E+07	
T104	Na				5.11E+06	g-moles	L		TRAC	Na	6.61E+07	
A104	Na	3/25/74	T-2893	1.132	2.84	moles/l	P	Supernate	Braun	Na	6.53E+07	
A104	Na	3/25/74	T-2893	1.132	2.84E+00	M	L		RAW	Na	6.53E+07	
BX105	Na	2/11/76	T-2325	1.369	2.83E+00	M	L		RAW	Na	6.51E+07	
BX104	Na	7/15/75	T-6110	1.1471	2.81	moles/l	L	Liquor	Braun	Na	6.46E+07	
BX104	Na	7/15/75	T-6110	1.1471	2.81E+00	M	L		RAW	Na	6.46E+07	
B102	Na	10/24/75			6.44E+01	g/L	P	Supernate	Wastren	Na	6.44E+07	
B102	Na	10/24/75	T-4887	1.1383	2.8	moles/l	P	Supernate	Braun	Na	6.44E+07	
BX104	Na	12/6/74	T-365	1.1286	2.8	moles/l	L	Liquor	Braun	Na	6.44E+07	
B102	Na	10/24/75	T-4887	1.1383	2.80E+00	M	L	No Solids	RAW	Na	6.44E+07	
BX104	Na	12/6/74	T-365	1.1286	2.80E+00	M	L		RAW	Na	6.44E+07	
AX102	Na TOT	2/22/80	7700	1.088	2.80E+00	M	L	Liquor	RAW	Na	6.43E+07	
AX102	Na	2/22/80	7700	1.088	2.77	moles/l	L	Liquor	Braun	Na	6.37E+07	
T112	Na	10/27/87			6.28E+01	g/L	P	Supernate	Wastren	Na	6.28E+07	
T112	Na	10/27/87	RAT-T112-1		2.73	moles/l	P	Supernate	Braun	Na	6.28E+07	
T112	Na	10/27/87			2.73E+00	M	P	Supernatant	RAW	Na	6.28E+07	
AX102	Na TOT	2/22/80	7701	1.071	2.72E+00	M	L	Liquor	RAW	Na	6.26E+07	
S108	Na				6.18E+06	g-moles	L		TRAC	Na	6.23E+07	
AX102	Na	2/22/80	7701	1.071	2.7014	moles/l	L	Liquor	Braun	Na	6.21E+07	
C104	Na	11/19/74	T-5312	1.1539	2.7	moles/l	P	Supernate	Braun	Na	6.21E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID	
C102	Na	6/3/91			6.17E+01	g/L	P	Supernate	Wastren	Na	6.17E+07		
C112	Na	6/26/75	T-5624	1.12	2.68	moles/l	P	Supernate	Braun	Na	6.16E+07		
C112	Na	10/27/75	T-5624	1.1222	2.68E+00	M	L		RAW	Na	6.16E+07		
C112	Na	6/26/75			6.16E+01	g/L	L	Drainable Liquid	Wastren	Na	6.16E+07		
BX107	Na				3.74E+06	g-moles	L		TRAC	Na	6.15E+07		
SX108	NaOH Free	4/1/61		1.712	6.10E+01	g/l	P	Supernatant	RAW	Na	6.10E+07		
SX108	NaOH Free	4/1/61		1.712	6.10E+01	g/l	P	Supernatant	RAW	Na	6.10E+07		
C102	Na	9/26/75	T-8306	1.136	2.57	moles/l	P	Supernate	Braun	Na	5.91E+07		
T101	Na	8/1/89	RAT-T101-1	1.2	2.57	moles/l	P	Supernate	Braun	Na	5.91E+07		
C102	Na	9/26/75	T-8306	1.136	2.57E+00	M	L		RAW	Na	5.91E+07		
T101	Na	8/1/89		1.2	2.57E+00	mol/l	F	Filtrate	RAW	Na	5.91E+07		
T101	Na	8/1/89			5.91E+01	g/L	P	Supernate	Wastren	Na	5.91E+07		
TX105	Na				5.53E+06	g-moles	L		TRAC	Na	5.91E+07		
A105	Na				1.77E+05	g-moles	L		TRAC	Na	5.90E+07		
TY105	Na				2.72E+06	g-moles	L		TRAC	Na	5.90E+07		
S107	Na	11/6/73	T-178	1.1071	2.55E+00	M	P	Supernate	RAW	Na	5.87E+07		
T105	Na	3/15/65	RAT-T105-1	1.126	58	gm/l	U	Unknown	Braun	Na	5.80E+07		
TX109	Na	3/15/65	RAT-TX109-1	1.138	58	gm/l	P	Supernate	Braun	Na	5.80E+07		
T105	Na +	9/24/65		1.126	5.80E+01	g/l	U	unknown	RAW	Na	5.80E+07		
TX109	Na +	9/24/65		1.138	58	g/l	L		RAW	Na	5.80E+07		
T105	Na	3/15/65			5.80E+01	g/L	P	Supernate	Wastren	Na	5.80E+07		
BX112	Na				1.28E+06	g-moles	L		TRAC	Na	5.71E+07		
B103	Na	5/9/75	T-4298	1.117	2.47	moles/l	P	Supernate	Braun	Na	5.68E+07		
B103	Na	5/9/75	T-4298	1.117	2.47E+00	M	L	yellow	RAW	Na	5.68E+07		
B103	Na	5/9/75			5.68E+01	g/L	P	Supernate	Wastren	Na	5.68E+07		
T107	Na	9/25/75	T-8248	1.129	2.44	moles/l	P	Supernate	Braun	Na	5.61E+07		
t104	Sodium	8/26/92	B08TQ7	1.1	5.54E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	5.54E+07		
A101	Na	10/14/74	T-8936	1.289	2.4	moles/l	P	Supernate	Braun	Na	5.52E+07		
A101	Na	10/14/74	T-8936	1.289	2.40E+00	M	L		RAW	Na	5.52E+07		
C107	Na	6/3/91			5.44E+01	g/L	L	Drainable Liquid	Wastren	Na	5.44E+07		
T112	Na	8/14/74	T-5821	1.054	2.36	moles/l	P	Supernate	Braun	Na	5.43E+07		
A106	NaOH	5/23/80	RAT-A106-1	1.39	2.36	moles/l	L	Liquor	Braun	Na	5.43E+07		
T112	Na	8/14/74	T-5821	1.054	2.36E+00	M	L	clear brown	RAW	Na	5.43E+07		
T107	Na	8/1/89	RAT-T107-1	1.2	2.35	moles/l	P	Supernate	Braun	Na	5.41E+07		
T107	Na	8/1/89		1.2	2.35E+00	M	P	supernatant	RAW	Na	5.41E+07		
T107	Na	8/1/89			5.40E+01	g/L	P	Supernate	Wastren	Na	5.40E+07		
T203	Na				3.25E+05	g-moles	L		TRAC	Na	5.36E+07		
U111	Na	7/8/75	T-5957	1.1178	2.33E+00	M	L	No Solids	RAW	Na	5.36E+07		
A102	Na	10/23/79	RAT-A102-3	1.154	2.316	moles/l	P	Supernate	Braun	Na	5.33E+07		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B103	Na	10/20/75	T-7809	1.1253	2.28E+00	M	L	yellow	RAW	Na	5.24E+07	
TX115	Na				5.35E+06	g-moles	L		TRAC	Na	5.22E+07	
TX118	Na	3/21/79	8385	1.089	2.26	moles/l	P	Supernate	Braun	Na	5.20E+07	
SX106	Na	11/1/79			5.19E+01	g/L	P	Supernate	Wastren	Na	5.19E+07	
SX106	Na	11/1/79	T-4379	1.11	2.256	moles/l	P	Supernate	Braun	Na	5.19E+07	
BX105	Na	2/28/74	T-2046	1.0956	2.21	moles/l	L	Liquor	Braun	Na	5.08E+07	
BX105	Na	1/28/74	T-2046	1.0956	2.21E+00	M	L		RAW	Na	5.08E+07	
A106	Na	6/25/74	T-5316		2.2	moles/l	P	Supernate	Braun	Na	5.06E+07	
AX101	Na	7/14/75	RAT-AX101-4	1.114	2.2	moles/l	P	Supernate	Braun	Na	5.06E+07	
A106	Na	6/25/74	T-5316		2.20E+00	M	O	~5% Solids	RAW	Na	5.06E+07	
C110	Na	11/1/91	2	1.1	4.88E+04	ug/ml	L	core 38 seg. 4	RAW	Na	4.88E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.88E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	4.88E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.88E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	4.88E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.88E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	4.88E+07	
T103	Na				1.82E+05	g-moles	L		TRAC	Na	4.74E+07	
C102	Na	4/1/90	RAT-C102-1		42600	ugm/gm	U	Unknown	Braun	Na	4.69E+07	
BX103	Na	4/14/75	T-3635	1.1383	2.02	moles/l	P	Supernate	Braun	Na	4.65E+07	
BX103	Na	4/14/75	T-3635	1.13	2.02E+00	M	L		RAW	Na	4.65E+07	
TY101	Na				7.95E+05	g-moles	L		TRAC	Na	4.59E+07	
BX103	Na	10/23/75	T-9138	1.103	1.98	moles/l	L	Liquor	Braun	Na	4.55E+07	
BX103	Na	10/23/75	T-9138	1.103	1.98E+00	M	L		RAW	Na	4.55E+07	
BX109	Na				1.50E+06	g-moles	L		TRAC	Na	4.53E+07	
C104	Na	5/13/74	T-3621	1.0761	1.96	moles/l	P	Supernate	Braun	Na	4.51E+07	
S101	Na				1.70E+06	g-moles	L		TRAC	Na	4.51E+07	
C110	Na	11/1/91	1	1.1	4.50E+04	ug/ml	L	core 38 seg. 4	RAW	Na	4.50E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.50E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	4.50E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.50E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	4.50E+07	
c110	Sodium	4/23/92	B08VP9	1.1	4.50E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	4.50E+07	
B103	Na				6.58E+05	g-moles	L		TRAC	Na	4.46E+07	
S111	Na				4.27E+06	g-moles	L		TRAC	Na	4.44E+07	
T202	Na				1.53E+05	g-moles	L		TRAC	Na	4.42E+07	
S103	Na	1/21/74	T-736	1.0742	1.89	moles/l	P	Supernate	Braun	Na	4.35E+07	
S103	Na	1/21/74	T-736	1.0742	1.89E+00	M	L	Clear, yellow	RAW	Na	4.35E+07	
BX104	Na	11/5/75	T-9511	1.087	1.88	moles/l	L	Liquor	Braun	Na	4.32E+07	
BX104	Na	11/5/75	T-9511	1.087	1.88E+00	M	L		RAW	Na	4.32E+07	
T110	Na	1/20/75	T-5313	1.084	1.87	moles/l	P	Supernate	Braun	Na	4.30E+07	
T110	Na	1/20/75	T-4340	1.084	1.87E+00	M	L	clear yellow	RAW	Na	4.30E+07	
T110	Na	1/20/75			4.30E+01	g/L	P	Supernate	Wastren	Na	4.30E+07	
T109	Na				1.04E+06	g-moles	L		TRAC	Na	4.29E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SX104	Na				2.39E+06	g-moles	L		TRAC	Na	4.22E+07	
C109	Na				4.01E+05	g-moles	L		TRAC	Na	4.17E+07	
C103	Na	5/20/75	T-9661	1.083	1.8	moles/l	P	Supernate	Braun	Na	4.14E+07	
C103	Na	11/11/74	T-9661	1.083	1.80E+00	M	L		RAW	Na	4.14E+07	
B102	Na				3.25E+05	g-moles	L		TRAC	Na	4.13E+07	
TY101	Na TOT	12/6/82	Na TOT	1.086	1.51E+00	M	F		RAW	Na	4.09E+07	
C103	Na	5/7/86	F1XD00XX	1.11	40200	mg/l	L	Liquor	Braun	Na	4.02E+07	
C103	Sodium	5/19/87	F1XDXXXX		4.02E+04	mg/L	L	Drainable Liquor	RAW	Na	4.02E+07	
C103	Sodium	5/19/87	F1XDXXXX		4.02E+04	mg/L	L	Drainable Liquor	RAW	Na	4.02E+07	
TY101	Na TOT	12/6/82	T-3533	1.086			F	Filtrate	Braun	Na	3.98E+07	
S110	Na				4.02E+06	g-moles	L		TRAC	Na	3.92E+07	
C103	Na	6/3/91	R-8108	1.07	36000	ppm	P	Supernate	Braun	Na	3.85E+07	
C103	Na	4/27/90	8108	1.07	3.60E+04	ppm	P	supernate	RAW	Na	3.85E+07	
C103	Na	5/14/86	F2XD00XX	1.08	38300	mg/l	L	Liquor	Braun	Na	3.83E+07	
C103	Sodium	5/19/87	F2XDXXXX		3.83E+04	mg/L	L	Drainable Liquor	RAW	Na	3.83E+07	
C103	Sodium	5/19/87	F2XDXXXX		3.83E+04	mg/L	L	Drainable Liquor	RAW	Na	3.83E+07	
C103	Na	6/3/91	R-8109	1.06	36000	ppm	P	Supernate	Braun	Na	3.82E+07	
B202	Na	10/6/75	T-8579	1.018	1.65	moles/l	P	Supernate	Braun	Na	3.80E+07	
B202	Na	12/10/75	T-8579	1.018	1.65E+00	M	L	clear	RAW	Na	3.80E+07	
TX102	NaOH Free	9/24/65		1.418	1.65E+00	N	U	sludge	RAW	Na	3.80E+07	
BX104	Na	2/28/74	T-2045	1.1325	1.64	moles/l	L	Liquor	Braun	Na	3.77E+07	
BX104	Na	2/28/74	T-2045	1.1325	1.64E+00	M	L	feed	RAW	Na	3.77E+07	
TX104	NaOH Free	9/24/65		1.382	1.62E+00	N	L		RAW	Na	3.73E+07	
B204	Na				3.00E+05	g-moles	L		TRAC	Na	3.68E+07	
B203	Na				3.03E+05	g-moles	L		TRAC	Na	3.68E+07	
A102	Na	8/19/75	T-7252	1.087	1.58	moles/l	P	Supernate	Braun	Na	3.63E+07	
A102	Na	8/19/75	T-7252	1.087	1.58E+00	M	L	No solids	RAW	Na	3.63E+07	
TX117	Na				2.17E+06	g-moles	L		TRAC	Na	3.55E+07	
S108	NaOH	3/15/65	RAT-S108-3	1.296	1.53	moles/l	P	Supernate	Braun	Na	3.52E+07	
S108	NaOH Free	3/15/65		1.296	1.53E+00	N	L		RAW	Na	3.52E+07	
U102	Na				2.14E+06	g-moles	L		TRAC	Na	3.44E+07	
U204	Na	9/25/75	T-8247	1.064	1.48	moles/l	P	Supernate	Braun	Na	3.40E+07	
U204	Na	9/25/75	T-8247	1.064	1.48E+00	M	L	No Solids	RAW	Na	3.40E+07	
A101	Na TOT	11/2/79		1.052	1.48E+00	M	L	Feed sample	RAW	Na	3.39E+07	
C103	Na	6/3/91			3.36E+01	g/L	P	Supernate	Wastren	Na	3.36E+07	
BX103	Na	11/25/74	T-8630	1.063	1.44	moles/l	P	Supernate	Braun	Na	3.31E+07	
BX103	Na	11/25/74	T-8630	1.063	1.44E+00	M	L		RAW	Na	3.31E+07	
C103	Na	9/16/74	T-6184	1.192	1.42	moles/l	P	Supernate	Braun	Na	3.27E+07	
C103	Na	9/16/74	T-6184	1.192	1.42E+00	M	L		RAW	Na	3.27E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY102	Na	12/20/55			1.40E+00	M	L		RAW	Na	3.22E+07	
T204	Na	12/4/78			3.21E+01	g/L	L	Drainable Liquid	Wastren	Na	3.21E+07	
C111	Na				2.83E+05	g-moles	L		TRAC	Na	3.15E+07	
C201	Na	12/4/78			3.13E+01	g/L	P	Supernate	Wastren	Na	3.13E+07	
c110	Sodium	4/23/92	B08VM5	1	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VM5	1	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VH6	1.18	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
c110	Sodium	4/23/92	B08VH6	1.18	3.06E+04	ug/mL	L	DUPLICATE RESULT	TCD	Na	3.06E+07	
B109	Na				3.31E+05	g-moles	L		TRAC	Na	3.06E+07	
c110	Sodium	4/23/92	B08VM5	1	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VM5	1	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VP9	1.1	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VH6	1.18	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
c110	Sodium	4/23/92	B08VH6	1.18	3.02E+04	ug/mL	L	PRIMARY RESULT	TCD	Na	3.02E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.05	1.31	moles/l	P	Supernate	Braun	Na	3.01E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.24	1.31	moles/l	P	Supernate	Braun	Na	3.01E+07	
T110	Na	5/24/74	T-4340	1.082	1.24E+00	M	L	light, yellow	RAW	Na	2.85E+07	
SX101	Na	4/26/89	R-4884	1.11	1.21	moles/l	P	Supernate	Braun	Na	2.78E+07	
SX101	Na	2/22/90		1.11	1.21E+00	M	L	Liquid	RAW	Na	2.78E+07	
SX101	Na	4/26/89			2.78E+01	g/L	L	Drainable Liquid	Wastren	Na	2.78E+07	
C103	Na	9/20/74	T-7563	1.0894	1.1	moles/l	P	Supernate	Braun	Na	2.53E+07	
C103	Na	9/20/74	T-7563	1.0894	1.10E+00	M	L		RAW	Na	2.53E+07	
SX101	Na	10/29/80	RAT-SX101-2	1.028	1.0738	moles/l	P	Supernate	Braun	Na	2.47E+07	
SX101	Na TOT	10/29/80	Na TOT	1.028	9.58E-01	M	L	Deep	RAW	Na	2.47E+07	
TY104	Na				1.75E+05	g-moles	L		TRAC	Na	2.33E+07	
TX118	Na +	9/24/65		1.041	2.30E+01	g/l	L		RAW	Na	2.30E+07	
SX103	NaOH	4/11/75	RAT-SX103-1B	1.38	0.964	moles/l	P	Supernate	Braun	Na	2.22E+07	
A102	Na	3/13/80	7956	1.065	1.99	wt. %	P	Supernate	Braun	Na	2.12E+07	
T111	Na	3/15/65	RAT-T111-1		21	gm/l	P	Supernate	Braun	Na	2.10E+07	
A102	Na	3/13/80	7957	1.064	1.97	wt. %	P	Supernate	Braun	Na	2.10E+07	
SX101	Na	10/29/80	RAT-SX101-1	1.02	0.8716	moles/l	P	Supernate	Braun	Na	2.00E+07	
SX101	Na TOT	10/29/80	Na TOT	1.02	7.96E-01	M	L	Shallow	RAW	Na	2.00E+07	
C112	Na				3.22E+05	g-moles	L		TRAC	Na	1.98E+07	
T102	Na				4.87E+04	g-moles	L		TRAC	Na	1.97E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State		Analyte Information			ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Source	Analyte	ug/L	
SX106	Na	11/13/78	5268		0.854	moles/l	P	Supernate		Braun	Na	1.96E+07	
SX106	Na +	11/13/78	5268		8.54E-01	M	P	Liquid, water like		RAW	Na	1.96E+07	
B106	Na				2.42E+05	g-moles	L			TRAC	Na	1.81E+07	
T105	NaOH	3/15/65	RAT-T105-1	1.126	0.779	moles/l	U	Unknown		Braun	Na	1.79E+07	
T105	NaOH Free	9/24/65		1.126	7.79E-01	N	U	unknown		RAW	Na	1.79E+07	
TX108	Na	2/5/81	RAT-TX108-1	1.377	0.71	moles/l	P	Supernate		Braun	Na	1.63E+07	
T111	NaOH	3/15/65	RAT-T111-1		0.701	moles/l	P	Supernate		Braun	Na	1.61E+07	
AX103	Na				3.05E+05	g-moles	L			TRAC	Na	1.53E+07	
TX118	NaOH Free	9/24/65		1.041	6.43E-01	N	L			RAW	Na	1.48E+07	
t107	Sodium	3/1/93	B08V16	1.02	1.46E+04	ug/mL	L	DUPLICATE RESULT		TCD	Na	1.46E+07	
t107	Sodium	3/1/93	B08V16	1.02	1.46E+04	ug/mL	L	DUPLICATE RESULT		TCD	Na	1.46E+07	
t107	Sodium	3/1/93	B08V16	1.02	1.46E+04	ug/mL	L	PRIMARY RESULT		TCD	Na	1.46E+07	
t107	Sodium	3/1/93	B08V16	1.02	1.46E+04	ug/mL	L	PRIMARY RESULT		TCD	Na	1.46E+07	
U109	Na				1.07E+06	g-moles	L			TRAC	Na	1.43E+07	
SX106	NaOH	2/25/77	RAT-SX106-1	1.458	0.62	moles/l	P	Supernate		Braun	Na	1.43E+07	
U110	Na				8.41E+04	g-moles	L			TRAC	Na	1.39E+07	
TX105	Na	1/21/74	T-805		0.554	moles/l	L	Liquor		Braun	Na	1.27E+07	
SX106	Na				9.91E+05	g-moles	L			TRAC	Na	1.26E+07	
T108	Na				8.60E+04	g-moles	L			TRAC	Na	1.22E+07	
C106	NaOH	10/10/74	RAT-C106-2	1.21	0.52	moles/l	P	Supernate		Braun	Na	1.20E+07	
U108	Na	1/21/74	T-151	1.0056	0.515	moles/l	P	Supernate		Braun	Na	1.18E+07	
U108	Na	1/21/74	T-151	1.0056	5.15E-01	M	L	No Solids		RAW	Na	1.18E+07	
SX115	NaOH	9/16/64			5.14E-01	M	U	unknown		RAW	Na	1.18E+07	
C204	Na	6/26/75			1.03E+01	g/L	P	Supernate		Wastren	Na	1.03E+07	
C204	Na	6/26/75	T-5625	0.9974	0.446	moles/l	P	Supernate		Braun	Na	1.03E+07	
T111	Na	6/7/74	T-3304	1.018	0.446	moles/l	P	Supernate		Braun	Na	1.03E+07	
C204	Na	6/26/75	T-5625	0.9974	4.46E-01	M	O			RAW	Na	1.03E+07	
T111	Na	6/7/74	T-3304	1.018	4.46E-01	M	L	clear yellow		RAW	Na	1.03E+07	
AX101	NaOH	7/14/75	RAT-AX101-4	1.114	0.43	moles/l	P	Supernate		Braun	Na	9.89E+06	
C107	Na				4.78E+05	g-moles	L			TRAC	Na	9.64E+06	
U103	NaOH Free	3/15/65		1.387	4.12E-01	N	L			RAW	Na	9.48E+06	
C110	Na	11/1/91	2	1	9.05E+03	ug/ml	L	core 37 seg. 3		RAW	Na	9.05E+06	
c110	Sodium	4/23/92	B08VM5	1	9.05E+03	ug/mL	L	DUPLICATE RESULT		TCD	Na	9.05E+06	
c110	Sodium	4/23/92	B08VM5	1	9.05E+03	ug/mL	L	DUPLICATE RESULT		TCD	Na	9.05E+06	
C110	Na	11/1/91	1	1	8.89E+03	ug/ml	L	core 37 seg. 3		RAW	Na	8.89E+06	
c110	Sodium	4/23/92	B08VM5	1	8.89E+03	ug/mL	L	PRIMARY RESULT		TCD	Na	8.89E+06	
c110	Sodium	4/23/92	B08VM5	1	8.89E+03	ug/mL	L	PRIMARY RESULT		TCD	Na	8.89E+06	
TY104	Na +	9/18/80		1.57	4.93E-01	wt %	U	unknown		RAW	Na	7.74E+06	
TX108	Na	2/2/76	T-1989	1.386	0.334	moles/l	P	Supernate		Braun	Na	7.68E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TX108	Na	2/2/76	T-1984	1.386	0.334	M	L	yellow	RAW	Na	7.68E+06	
TX103	Na				2.47E+05	g-moles	L		TRAC	Na	7.35E+06	
TX106	Na				5.18E+05	g-moles	L		TRAC	Na	6.97E+06	
U110	Na	10/21/75	T-5956	1.01	5.66E+03	ug/ml	P	Supernate	RAW	Na	5.66E+06	
A103	Na				4.66E+05	g-moles	L		TRAC	Na	5.57E+06	
U107	Na				3.57E+05	g-moles	L		TRAC	Na	5.56E+06	
BX108	Na				1.66E+04	g-moles	L		TRAC	Na	4.73E+06	
U107	Na	10/14/74	T-8938	1.016	0.191	moles/l	P	Supernate	Braun	Na	4.39E+06	
U107	Na	10/14/74	T-8938	1.016	1.91E-01	M	L	No solids	RAW	Na	4.39E+06	
T111	Na	9/24/74	T-4893	1.0202	0.188	moles/l	P	Supernate	Braun	Na	4.32E+06	
TX108	NaOH Free	9/24/65		1.246	0.18	N	L		RAW	Na	4.14E+06	
U111	Na				8.96E+04	g-moles	L		TRAC	Na	4.12E+06	
TX105	Na	8/19/76	T-6311	1.403	0.141	moles/l	P	Supernate	Braun	Na	3.24E+06	
TX105	Na	3/17/76	T-6311		0.141	M	L	green	RAW	Na	3.24E+06	
S106	Na	10/14/74	T-5469	1.0004	0.107	moles/l	P	Supernate	Braun	Na	2.46E+06	
S106	Na	10/14/74	T-5469	1.0004	1.07E-01	M	L	No solids	RAW	Na	2.46E+06	
SX106	Na	12/6/74	T-8041	1.004	0.0508	moles/l	P	Supernate	Braun	Na	1.17E+06	
SX106	Na	12/6/74	T-8041	1.004	5.08E-02	M	L	No Solids	RAW	Na	1.17E+06	
TY101	NaOH	12/6/82	T-3533	1.086	0.05	moles/l	F	Filtrate	Braun	Na	1.15E+06	
TX102	Na				4.67E+04	g-moles	L		TRAC	Na	8.86E+05	
C201	Na				4.26E+02	g-moles	L		TRAC	Na	6.46E+05	
C108	Na				5.44E+02	g-moles	L		TRAC	Na	6.42E+05	
TX111	NaOH Free	2/24/65		1.032	0.021	N	L		RAW	Na	4.83E+05	
C105	Na	5/19/87		1.23	1.14E+05	ug/l	L		RAW	Na	1.14E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
U108	Na				5.36E+03	g-moles	L		TRAC	Na	9.65E+04	
C106	Na	4/14/87		1.22	9.49E+04	uG/L	L		RAW	Na	9.49E+04	
C204	Na				3.62E+01	g-moles	L		TRAC	Na	7.32E+04	
U105	Na				4.19E+03	g-moles	L		TRAC	Na	6.26E+04	
t107	Sodium	3/1/93	B08VB5	1.1	5.23E+04	UG/L	L	PRIMARY RESULT	TCD	Na	5.23E+04	
t107	Sodium	3/1/93	B08VB5	1.1	5.15E+04	UG/L	L	DUPLICATE RESULT	TCD	Na	5.15E+04	
U103	Na				2.06E+03	g-moles	L		TRAC	Na	3.70E+04	
TX107	Na				9.73E+01	g-moles	L		TRAC	Na	1.48E+04	
B101	Na				1.57E+02	g-moles	L		TRAC	Na	1.02E+04	
T201	Na				1.25E+01	g-moles	L		TRAC	Na	2.71E+03	
T204	Na				1.67E+01	g-moles	L		TRAC	Na	2.67E+03	
C110	Na				8.43E+01	g-moles	L		TRAC	Na	2.47E+03	
T107	Na				6.61E+01	g-moles	L		TRAC	Na	2.33E+03	
BX101	Na				1.06E+01	g-moles	L		TRAC	Na	2.31E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Liquids [Sketch ES-VAL-CC27]
 ASA Value: 3.27E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SX101	Na				6.00E+01	g-moles	L		TRAC	Na	2.30E+03	
B201	Na				1.10E+01	g-moles	L		TRAC	Na	2.30E+03	
A106	Na				4.02E+01	g-moles	L		TRAC	Na	2.30E+03	
AX101	Na				2.87E+02	g-moles	L		TRAC	Na	2.30E+03	
C203	Na				3.40E+00	g-moles	L		TRAC	Na	2.30E+03	
C202	Na				2.93E-01	g-moles	L		TRAC	Na	2.30E+03	
AX102	Na				2.01E+01	g-moles	L		TRAC	Na	2.30E+03	
A101	Na				2.49E+02	g-moles	L		TRAC	Na	2.30E+03	
U106	Na				8.59E+01	g-moles	L		TRAC	Na	2.30E+03	
S102	Na				1.40E+02	g-moles	L		TRAC	Na	2.30E+03	
C102	Na				9.87E+01	g-moles	L		TRAC	Na	2.29E+03	
TX104	Na				2.57E+01	g-moles	L		TRAC	Na	2.29E+03	
S107	Na				3.89E+01	g-moles	L		TRAC	Na	2.29E+03	
C104	Na				7.06E+01	g-moles	L		TRAC	Na	2.29E+03	
C106	Na				6.38E+01	g-moles	L		TRAC	Na	2.29E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S112	Na TOT	11/15/74			1.23E+08	g/L	K	Saltcake	Wastren	Na	1.23E+14	19
SX104	Na TOT	6/19/74	RAT-SX104-1A	0			G	Sludge	Braun	Na	3.66E+09	9
SX102	Na TOT	3/18/76	RAT-SX102-3	1.829			A	Salts	Braun	Na	3.38E+09	19
SX101	Na TOT	11/13/74	RAT-SX101-3	1.65			A	Salts	Braun	Na	3.07E+09	19
SX103	Na TOT	3/18/76	RAT-SX103-2	1.601			A	Salts	Braun	Na	2.85E+09	19
S105	Na TOT	8/23/74	RAT-S105-6	1.261			S	Solids	Braun	Na	2.60E+09	19
S106	Na TOT	8/23/74	RAT-S106-4	1.27			A	Salts	Braun	Na	2.41E+09	19
S112	Na TOT	11/15/74	RAT-S112-1	1.304			A	Salts	Braun	Na	2.08E+09	19
S109	Na TOT	8/19/74	RAT-S109-3	1.1			A	Salts	Braun	Na	1.98E+09	19
S106	Na TOT	6/4/75	RAT-S106-2	1.59			S	Solids	Braun	Na	1.95E+09	19
B107	Na TOT	1/19/76	RAT-B107-1	1.64			G	Sludge	Braun	Na	1.57E+09	19
U109	Na TOT	11/12/75	RAT-U109-1	1.24			G	Sludge	Braun	Na	1.33E+09	19
S102	Na TOT	4/29/75	RAT-S102-1	1.3			S	Solids	Braun	Na	1.32E+09	19
S105	Na TOT	3/1/74	RAT-S105-2	1.38			S	Solids	Braun	Na	1.12E+09	19
B105	Na TOT	1/16/76	RAT-B105-1	1.1			G	Sludge	Braun	Na	1.06E+09	19
T101	Na				1.70E+05	g-moles	S		TRAC	Na	1.03E+09	4
B109	Na				7.87E+06	g-moles	S		TRAC	Na	7.67E+08	4
TX111	Na				1.25E+06	g-moles	S		TRAC	Na	7.59E+08	4
TY106	Na				8.27E+05	g-moles	S		TRAC	Na	7.38E+08	4
B106	Na				6.47E+06	g-moles	S		TRAC	Na	6.80E+08	4
U107	Na				1.09E+05	g-moles	S		TRAC	Na	6.61E+08	4
TX117	Na				2.69E+07	g-moles	S		TRAC	Na	6.41E+08	4
A105	Na	1/12/72		2.04	3.10E-01	g/g	S	Wet Solids	RAW	Na	6.32E+08	6
TX110	Na				1.43E+06	g-moles	S		TRAC	Na	6.20E+08	4
TX112	Na				5.00E+05	g-moles	S		TRAC	Na	6.07E+08	4
TX116	Na				2.51E+07	g-moles	S		TRAC	Na	6.02E+08	4
ASA Value: 5.99E+08 ug/L												
U105	Na	12/4/78	RAT-U105-3	1.62	37	wt. %	A	Salts	Braun	Na	5.99E+08	*
U105	Na	12/4/78			5.99E+02	g/L	K	Saltcake	Wastren	Na	5.99E+08	*
B108	Na				9.78E+06	g-moles	S		TRAC	Na	5.95E+08	
TY102	Na				9.80E+05	g-moles	S		TRAC	Na	5.95E+08	
T108	Na				3.06E+05	g-moles	S		TRAC	Na	5.80E+08	
U111	Na TOT	8/14/75	RAT-U111-1	0.908			G	Sludge	Braun	Na	5.76E+08	
SX103	Na	10/10/77			5.52E+02	g/L	G	Sludge	Wastren	Na	5.52E+08	
U105	Na	10/6/77	968		2.40E+01	M	S	Solid	RAW	Na	5.52E+08	
SX103	Na	10/10/77	1104		2.40E+01	M	A	Salt	RAW	Na	5.52E+08	
SX103	Na	10/10/77	1104	1.5	24	moles/l	S	Solids	Braun	Na	5.52E+08	
SX103	Na	10/10/77	1104	2	24	moles/l	S	Solids	Braun	Na	5.52E+08	
U105	Na	10/6/77	968		24	moles/l	S	Solids	Braun	Na	5.52E+08	
T106	Na				6.47E+06	g-moles	S		TRAC	Na	5.49E+08	
S111	Na	12/16/74	T-8141	1.795	2.38E+01	M	S		RAW	Na	5.48E+08	
B107	Na				2.90E+06	g-moles	S		TRAC	Na	5.33E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U105	Na	3/14/77		1.72	2.30E+01	mol/l	G	Sludge	RAW	Na	5.29E+08	
U105	Na	3/14/77	RAT-U105-2	1.72	23	moles/l	G	Sludge	Braun	Na	5.29E+08	
U103	Na	12/10/77	3665	1.547	22.8	moles/l	P		Braun	Na	5.24E+08	
TX118	Na				1.88E+08	g-moles	S		TRAC	Na	5.21E+08	
BX111	Na				4.09E+06	g-moles	S		TRAC	Na	5.17E+08	
C103	Na				7.74E+07	g-moles	S		TRAC	Na	5.14E+08	
TX108	Na				5.63E+06	g-moles	S		TRAC	Na	5.09E+08	
BY101	Na				8.55E+06	g-moles	S		TRAC	Na	4.99E+08	
A102	Na				2.41E+07	g-moles	S		TRAC	Na	4.98E+08	
SX101	Na	12/4/78	4523	1.76	28.3	wt. %	A	Salts	Braun	Na	4.98E+08	
U112	Na				1.09E+07	g-moles	S		TRAC	Na	4.95E+08	
U202	Na				1.23E+06	g-moles	S		TRAC	Na	4.91E+08	
U201	Na				1.39E+06	g-moles	S		TRAC	Na	4.89E+08	
U203	Na				1.17E+06	g-moles	S		TRAC	Na	4.89E+08	
BX106	Na				8.69E+07	g-moles	S		TRAC	Na	4.88E+08	
U101	Na				4.97E+06	g-moles	S		TRAC	Na	4.88E+08	
SX113	Na				2.26E+07	g-moles	S		TRAC	Na	4.88E+08	
S109	Na				5.22E+07	g-moles	S		TRAC	Na	4.85E+08	
S103	Na				5.79E+07	g-moles	S		TRAC	Na	4.85E+08	
S112	Na				1.11E+08	g-moles	S		TRAC	Na	4.85E+08	
BY103	Na				8.53E+07	g-moles	S		TRAC	Na	4.84E+08	
U103	Na				9.17E+06	g-moles	S		TRAC	Na	4.84E+08	
TX102	Na				1.11E+06	g-moles	S		TRAC	Na	4.83E+08	
SX103	Na				8.07E+07	g-moles	S		TRAC	Na	4.80E+08	
BX104	Na				4.19E+07	g-moles	S		TRAC	Na	4.80E+08	
BY102	Na				3.49E+07	g-moles	S		TRAC	Na	4.80E+08	
U111	Na				1.41E+07	g-moles	S		TRAC	Na	4.78E+08	
S106	Na				3.70E+06	g-moles	S		TRAC	Na	4.78E+08	
SX110	Na				5.46E+07	g-moles	S		TRAC	Na	4.77E+08	
U108	Na				9.75E+06	g-moles	S		TRAC	Na	4.77E+08	
A104	Na				2.26E+07	g-moles	S		TRAC	Na	4.76E+08	
BY112	Na	5/29/71			2.07E+01	M	T	crust	RAW	Na	4.76E+08	
BX105	Na				4.13E+07	g-moles	S		TRAC	Na	4.73E+08	
B105	Na				7.67E+06	g-moles	S		TRAC	Na	4.70E+08	
S105	Na				1.16E+07	g-moles	S		TRAC	Na	4.69E+08	
SX115	Na				1.62E+07	g-moles	S		TRAC	Na	4.68E+08	
BX103	Na				5.91E+07	g-moles	S		TRAC	Na	4.68E+08	
BY109	Na				2.96E+07	g-moles	S		TRAC	Na	4.67E+08	
SX102	Na				6.50E+07	g-moles	S		TRAC	Na	4.62E+08	
B203	Na	1/7/83			4.62E+02	g/L	G	Sludge	Wastren	Na	4.62E+08	
TX118	Na	1/21/74	T-835		20.06	moles/l	P		Braun	Na	4.61E+08	
TX118	Na	1/21/74	T-835		2.01E+01	M	O		RAW	Na	4.61E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
A103	Na	12/18/72			2.88E-01	g/g	G	Sludge	RAW	Na	4.61E+08	
TX101	Na				2.27E+07	g-moles	S		TRAC	Na	4.59E+08	
SX105	Na				6.75E+08	g-moles	S		TRAC	Na	4.55E+08	
SX114	Na				4.11E+07	g-moles	S		TRAC	Na	4.53E+08	
SX108	Na				3.28E+07	g-moles	S		TRAC	Na	4.48E+08	
S109	Na	12/8/76	RAT-S109-1	1.27	35	wt. %	A	Salts	Braun	Na	4.45E+08	
S109	Na	12/8/76			4.44E+02	g/L	K	Saltcake	Wastren	Na	4.44E+08	
A105	Na	1/12/72	RAT-A105-2	1.43	0.31	gm/gm	Y	Slurry	Braun	Na	4.43E+08	
BY104	Na	10/26/92	riser 10b		2.73E+05	ug/g	S	water digestion	RAW	Na	4.36E+08	
S102	Na				1.32E+07	g-moles	S		TRAC	Na	4.33E+08	
SX109	Na				2.78E+07	g-moles	S		TRAC	Na	4.33E+08	
BY104	Na	10/26/92	riser 10b		2.70E+05	ug/g	S	acid digestion	RAW	Na	4.32E+08	
TY101	Na				4.55E+06	g-moles	S		TRAC	Na	4.31E+08	
SX101	Na	12/4/78	4523	1.52	28.3	wt. %	A	Salts	Braun	Na	4.30E+08	
BX110	Na				4.16E+06	g-moles	S		TRAC	Na	4.28E+08	
S111	Na	8/25/78	1003/1004-C	1.86	23	wt. %	S	Solids	Braun	Na	4.28E+08	
SX111	Na				2.85E+07	g-moles	S		TRAC	Na	4.27E+08	
TY102	Na	2/1/80	RAT-TY102-1	1.51	28.13	wt. %	A	Salts	Braun	Na	4.25E+08	
A101	Na				1.91E+07	g-moles	S		TRAC	Na	4.25E+08	
B203	Na	1/7/83	RAT-B203-1		26.35	wt. %	G	Sludge	Braun	Na	4.22E+08	
C108	Na				4.15E+06	g-moles	S		TRAC	Na	4.21E+08	
SX104	Na				2.90E+07	g-moles	S		TRAC	Na	4.20E+08	
SX107	Na				1.64E+07	g-moles	S		TRAC	Na	4.18E+08	
SX106	Na +				1.80E+01	moles/L	S		HTCE Inv.	Na	4.15E+08	
S111	Na	8/25/78	1009-C	1.46	28.4	wt. %	S	Solids	Braun	Na	4.15E+08	
BY112	Na				1.21E+07	g-moles	S		TRAC	Na	4.09E+08	
S111	Na	8/25/78	1009-C	1.44	28.4	wt. %	S	Solids	Braun	Na	4.09E+08	
TY105	Na	2/1/80	RAT-TY105-1	1.44	28.37	wt. %	G	Sludge	Braun	Na	4.09E+08	
BY104	Na	10/26/92	riser 10b		2.50E+05	ug/g	S	fusion digestion	RAW	Na	4.00E+08	
BY104	Na	11/12/92	R-1775		250000	ugm/gm	T	Crust	Braun	Na	4.00E+08	
A102	Na	5/31/63	RAT-A102-5		0.246	gm/gm	G	Sludge	Braun	Na	3.94E+08	
A101	Na TOT	11/11/80		1.85	1.71E+01	M	R	Total Slurry	RAW	Na	3.94E+08	
A101	Na	11/11/80	RAT-A101-5A	1.85	17.11	moles/l	Y	Slurry	Braun	Na	3.94E+08	
U110	Sodium	12/1/89	Core 7 Segment 4	1.93	2.03E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	3.93E+08	
S102	Na +				1.70E+01	moles/L	S		HTCE Inv.	Na	3.90E+08	
C101	Na				4.21E+06	g-moles	S		TRAC	Na	3.89E+08	
BY112	Na	5/29/71			1.69E+01	M	G	Sludge	RAW	Na	3.89E+08	
TY102	Na	1/30/86	41XCXXXX	1.88	2.06E+05	ug/g	I	Core composite	RAW	Na	3.87E+08	
TY102	Na	9/9/85	41XCOOOO	1.88	206000	ugm/gm	G	Sludge/Composite	Braun	Na	3.87E+08	
TY102	Na	9/9/85			3.87E+02	g/L	K	Saltcake	Wastren	Na	3.87E+08	
TY102	Na	1/30/86	41XCXXXX	1.88	1.47E+03	g/gal	I	Core composite	RAW	Na	3.87E+08	
TX109	Na				3.12E+06	g-moles	S		TRAC	Na	3.86E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code			Analyte	ug/L	
S104	Na				1.60E+07	g-moles	S		TRAC	Na	3.84E+08	
U105	Na +				1.67E+01	moles/L	S		HTCE Inv.	Na	3.83E+08	
C106	Na				3.09E+06	g-moles	S		TRAC	Na	3.75E+08	
B112	Na				5.07E+06	g-moles	S		TRAC	Na	3.74E+08	
S103	Na +				1.62E+01	moles/L	S		HTCE Inv.	Na	3.73E+08	
U107	Na +				1.62E+01	moles/L	S		HTCE Inv.	Na	3.72E+08	
A105	Na	1/12/72			3.70E+02	g/L	G	Sludge	Wastren	Na	3.70E+08	
U111	Na +				1.61E+01	moles/L	S		HTCE Inv.	Na	3.70E+08	
A105	Na	1/12/72	RAT-A105-1A	1.54	0.24	gm/gm	S	Solids	Braun	Na	3.70E+08	
SX101	Na				1.88E+07	g-moles	S		TRAC	Na	3.65E+08	
SX104	Na	2/14/77	RAT-SX104-2	1.39	26	wt.%	A	Salts	Braun	Na	3.61E+08	
S105	Na TOT	8/23/74			3.60E+02	g/L	G	Sludge	Wastren	Na	3.60E+08	
S101	Na				1.17E+07	g-moles	S		TRAC	Na	3.59E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 2	1.3	2.75E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.58E+08	
S108	Na TOT	6/4/75			3.57E+02	g/L	G	Sludge	Wastren	Na	3.57E+08	
BY112	Na	4/4/72			3.57E+02	g/L	G	Sludge	Wastren	Na	3.57E+08	
BY112	Na	4/4/72	RAT-BY112-1	1.48	24.1	wt.%	S	Solids	Braun	Na	3.57E+08	
TX106	Na TOT	2/10/81	Na TOT	1.495	1.49E+01	M	O		RAW	Na	3.56E+08	
S111	Na	9/18/80	RAT-S111-5		22.2	wt.%	S	Solids	Braun	Na	3.55E+08	
U108	Na +				1.52E+01	moles/L	S		HTCE Inv.	Na	3.50E+08	
U109	Na +				1.51E+01	moles/L	S		HTCE Inv.	Na	3.48E+08	
U103	Na +				1.51E+01	moles/L	S		HTCE Inv.	Na	3.46E+08	
SX106	Na	2/28/77		1.6	1.50E+01	mol/l	S	Solid	RAW	Na	3.45E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.45	15	moles/l	S	Supernate/Solids	Braun	Na	3.45E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.58	15	moles/l	S	Supernate/Solids	Braun	Na	3.45E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.6	15	moles/l	S	Supernate/Solids	Braun	Na	3.45E+08	
B111	Na				3.10E+07	g-moles	S		TRAC	Na	3.45E+08	
TX113	Na				7.17E+06	g-moles	S		TRAC	Na	3.43E+08	
BY108	Na				7.30E+05	g-moles	S		TRAC	Na	3.41E+08	
A105	Na	1/12/72	RAT-A105-1B	1.54	0.22	gm/gm	S	Solids	Braun	Na	3.39E+08	
U110	Sodium	12/1/89	Core 6 Segment 4	1.8	1.88E+05	ug/g	I	PRIMARY	U110 Core Data	Na	3.38E+08	
U110	Sodium	12/1/89	Core 7 Segment 4	1.93	1.74E+05	ug/g	I	PRIMARY	U110 Core Data	Na	3.35E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.46E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.34E+08	
S111	Na	8/25/78	1001-C	1.27	26.2	wt.%	S	Solids	Braun	Na	3.33E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 5	1.36	2.45E+05	ug/g	I		B110 Core Data	Na	3.33E+08	
SX112	Na				8.00E+06	g-moles	S		TRAC	Na	3.30E+08	
U108	Na TOT	8/14/75	RAT-U108-1	0.898			G	Sludge	Braun	Na	3.29E+08	
SX107	Na	1/29/77	1345	1.33	24.6	wt.%	A	Salts	Braun	Na	3.27E+08	
S106	Na	12/16/74	T-8035	1.541	1.42E+01	M	S		RAW	Na	3.27E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.40E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.26E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.41E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.23E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.37E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.22E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SX106	Na	2/28/77		1.58	1.40E+01	mol/l	G	Sludge	RAW	Na	3.22E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.45	14	moles/l	G	Sludge	Braun	Na	3.22E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.58	14	moles/l	G	Sludge	Braun	Na	3.22E+08	
SX106	Na	2/28/77	RAT-SX106-2	1.6	14	moles/l	G	Sludge	Braun	Na	3.22E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 3	1.3	2.48E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.22E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 5	1.36	2.37E+05	ug/g	I		B110 Core Data	Na	3.22E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 3	1.3	2.47E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.21E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 5	1.36	2.36E+05	ug/g	I		B110 Core Data	Na	3.21E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.36E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.21E+08	
C203	Na				1.06E+03	g-moles	S		TRAC	Na	3.21E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.35E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.20E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.35E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.20E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 5	1.3	2.46E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.20E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.35E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.19E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 5	1.3	2.45E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.19E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.34E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.18E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.37E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.18E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 4	1.3	2.44E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.17E+08	
S107	Na				1.27E+07	g-moles	S		TRAC	Na	3.17E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.16E+08	
S105	Na +				1.37E+01	moles/L	S		HTCE Inv.	Na	3.16E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.36E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.16E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 3	1.3	2.43E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.16E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 3	1.3	2.43E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.16E+08	
S108	Na +				1.37E+01	moles/L	S		HTCE Inv.	Na	3.15E+08	
S112	Na +				1.37E+01	moles/L	S		HTCE Inv.	Na	3.15E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 5	1.3	2.42E+05	ug/g	I		B110 Core Data	Na	3.15E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 2	1.3	2.42E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.15E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.31E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.15E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 5	1.36	2.31E+05	ug/g	I		B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 2	1.3	2.42E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 5	1.3	2.41E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.34E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 4	1.3	2.41E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.31E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 5	1.3	2.41E+05	ug/g	I		B110 Core Data	Na	3.14E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 5	1.3	2.41E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.13E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.37E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.13E+08	
U106	Na +				1.36E+01	moles/L	S		HTCE Inv.	Na	3.12E+08	
S109	Na +				1.36E+01	moles/L	S		HTCE Inv.	Na	3.12E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 4	1.3	2.39E+05	ug/g	I		B110 Core Data	Na	3.11E+08	
SX104	Na	6/19/74		1.62	1.35E+01	mol/l	G	Sludge(Bottom Layer)	RAW	Na	3.11E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
SX104	Na	6/19/77		1.62	1.35E+01	M	S	Hard Chunk	RAW	Na	3.11E+08	
SX104	Na	6/19/74	RAT-SX104-1	1.62	13.5	moles/l	G	Sludge	Braun	Na	3.11E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 2	1.3	2.39E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.10E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 4	1.3	2.38E+05	ug/g	I		B110 Core Data	Na	3.09E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.34E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.09E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 5	1.28	2.41E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.09E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	2.25E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.08E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 5	1.28	2.41E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.08E+08	
B110	Sodium	4/1/90	Core Composite 4	1.36	2.27E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.08E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.08E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 5	1.3	2.37E+05	ug/g	I		B110 Core Data	Na	3.08E+08	
U103	Na	12/4/78			3.08E+02	g/L	G	Sludge	Wastren	Na	3.08E+08	
U103	Na	12/4/78	3064	1.4	22	wt. %	S	Solids	Braun	Na	3.08E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.08E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 2	1.3	2.36E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.07E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.29E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.07E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 5	1.3	2.36E+05	ug/g	I		B110 Core Data	Na	3.06E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.25E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.06E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 4	1.28	2.39E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.06E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.30E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.06E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.30E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.05E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 2	1.3	2.35E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.05E+08	
TX105	Na				2.06E+06	g-moles	S		TRAC	Na	3.05E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	2.23E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.05E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.29E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.05E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 4	1.28	2.38E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.05E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 4	1.3	2.34E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.04E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.31E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.04E+08	
U110	Sodium	12/1/89	Core 6 Segment 4	1.8	1.69E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	3.04E+08	
C202	Na				1.13E+04	g-moles	S		TRAC	Na	3.03E+08	
B110	Sodium	4/1/90	Core Composite 9	1.32	2.30E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.03E+08	
S106	Na +				1.32E+01	moles/L	S		HTCE Inv.	Na	3.03E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 3	1.3	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.03E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 3	1.3	2.33E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.02E+08	
B110	Sodium	4/1/90	CORE 18 SEGMENT 3	1.31	2.30E+05	ug/g	I		B110 Core Data	Na	3.02E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 4	1.3	2.31E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.01E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 3	1.29	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.01E+08	
U110	Na	11/10/89	89-045		187906	ugm/gm	G	Sludge	Braun	Na	3.01E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 3	1.3	2.31E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.01E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 5	1.3	2.31E+05	ug/g	I	PRIMARY	B110 Core Data	Na	3.00E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 3	1.29	2.33E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	3.00E+08	
TX115	Na				8.90E+05	g-moles	S		TRAC	Na	3.00E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX109	Na TOT	5/20/75	Na TOT	1.485	1.26E+01	M	G	reddish-brown sludge	RAW	Na	3.00E+08	
S108	Na TOT	7/8/74	RAT-S108-5	1.495			S	Solids	Braun	Na	2.99E+08	
T104	Na +	11/13/79		1.31	1.30E+01	M	I	soft sticky putty	RAW	Na	2.99E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	2.18E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.99E+08	
A102	Na	1/5/88	92xcooxx R-4	1.66	1.80E+05	ug/g	I	Composite Composite	RAW	Na	2.99E+08	
A102	Na	3/8/86	92XCOOXX	1.66	180000	ugm/gm	G	Sludge/Composite	Braun	Na	2.99E+08	
A101	Na TOT	11/10/80		1.65	1.30E+01	M	R	Total Slurry	RAW	Na	2.98E+08	
A101	Na	11/10/80	RAT-A101-4A	1.65	12.96	moles/l	Y	Slurry	Braun	Na	2.98E+08	
SX102	Na +				1.30E+01	moles/L	S		HTCE Inv.	Na	2.98E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 3	1.29	2.31E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.98E+08	
B110	Sodium	4/1/90	CORE 18 SEGMENT 3	1.31	2.27E+05	ug/g	I		B110 Core Data	Na	2.97E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	2.17E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.97E+08	
BY112	Na	4/4/72	RAT-BY112-3	1.44	20.6	wt.%	S	Solids	Braun	Na	2.97E+08	
S111	Na	12/27/76	RAT-S111-4	1.41	21	wt.%	A	Salts	Braun	Na	2.96E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 5	1.3	2.27E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.95E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 4	1.3	2.27E+05	ug/g	I		B110 Core Data	Na	2.95E+08	
A102	Na	2/24/87	91xcooxx R-4	1.52	1.94E+05	ug/g	I	Composite Composite	RAW	Na	2.95E+08	
A102	Na	3/6/86	91XCOOXX	1.52	194000	ugm/gm	G	Sludge/Composite	Braun	Na	2.95E+08	
SX105	Na +				1.28E+01	moles/L	S		HTCE Inv.	Na	2.94E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 1	1.23	2.39E+05	ug/g	I		B110 Core Data	Na	2.94E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.16E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.94E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 5	1.3	2.26E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.94E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 3	1.3	2.26E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.93E+08	
SX106	Na	4/18/78	8301	1.37	21.4	wt.%	S	Supernate/Solids	Braun	Na	2.93E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 1	1.23	2.38E+05	ug/g	I		B110 Core Data	Na	2.93E+08	
A105	Na	1/12/72		1.22	2.40E-01	g/g	S	Dry Solids	RAW	Na	2.93E+08	
B110	Sodium	4/1/90	CORE 4 SEGMENT 4	1.3	2.25E+05	ug/g	I		B110 Core Data	Na	2.93E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 5	1.24	2.36E+05	ug/g	I		B110 Core Data	Na	2.92E+08	
U110	Na				5.98E+06	g-moles	S		TRAC	Na	2.92E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 5	1.3	2.24E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.92E+08	
U102	Na +				1.27E+01	moles/L	S		HTCE Inv.	Na	2.92E+08	
A103	Na	3/3/87	B2xcxxxx R-12	1.35	2.15E+05	ug/g	I	Composite Composite	RAW	Na	2.90E+08	
A103	Sodium	4/3/86	B2XCOOXX	1.35	215000	ugm/gm	G	Sludge/Composite	Braun	Na	2.90E+08	
A103	Na	4/3/86			2.90E+02	g/L	K	Saltcake	Wastren	Na	2.90E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 4	1.28	2.27E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.90E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 2	1.24	2.34E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.90E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 1	1.23	2.35E+05	ug/g	I		B110 Core Data	Na	2.90E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 2	1.24	2.33E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.89E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 1	1.23	2.35E+05	ug/g	I		B110 Core Data	Na	2.89E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 5	1.28	2.26E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.89E+08	
B110	Sodium	4/1/90	Core Composite 10	1.34	2.15E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.88E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 3	1.3	2.22E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.88E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
BY104	Na	10/26/92	riser 5		1.80E+05	ug/g	S	acid digestion	RAW	Na	2.88E+08	
SX105	Na	12/12/75	T-377	1.5	1.25E+01	M	S		RAW	Na	2.88E+08	
SX105	Na	12/12/75	T-377	1.5	12.52	moles/l	S	Solids	Braun	Na	2.88E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 3	1.3	2.21E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.88E+08	
SX104	Na	12/5/75	T-375	1.49	1.25E+01	M	S		RAW	Na	2.87E+08	
SX104	Na	12/5/75	T-375	1.49	12.48	moles/l	S	Solids	Braun	Na	2.87E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 3	1.29	2.22E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.87E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 2	1.24	2.31E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.87E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.11E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.87E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 5	1.24	2.31E+05	ug/g	I		B110 Core Data	Na	2.87E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 5	1.24	2.31E+05	ug/g	I		B110 Core Data	Na	2.86E+08	
B110	Sodium	4/1/90	Core Composite 1	1.36	2.10E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.86E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 4	1.28	2.23E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.86E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.15E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.85E+08	
SX106	Na	4/18/78	8301	1.33	21.4	wt. %	S	Supernate/Solids	Braun	Na	2.85E+08	
U110	Na	12/4/89	89-084		177501	ugm/gm	G	Sludge	Braun	Na	2.84E+08	
B110	Sodium	4/1/90	CORE 18 SEGMENT 5	1.21	2.34E+05	ug/g	I		B110 Core Data	Na	2.84E+08	
B110	Sodium	4/1/90	CORE 9 SEGMENT 5	1.24	2.27E+05	ug/g	I		B110 Core Data	Na	2.82E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.07E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.81E+08	
BY104	Na	11/12/92			2.80E+02	g/L	K	Saltcake	Wastren	Na	2.80E+08	
A101	Na +				1.22E+01	moles/L	S		HTCE Inv.	Na	2.80E+08	
B110	Sodium	4/1/90	Core Composite 3	1.36	2.06E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.80E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 2	1.24	2.26E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.80E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 3	1.17	2.39E+05	ug/g	I		B110 Core Data	Na	2.79E+08	
A101	Na TOT	11/10/80		1.58	1.21E+01	M	R	Total Slurry	RAW	Na	2.79E+08	
A101	Na	11/10/80	RAT-A101-9A	1.58	12.11	moles/l	Y	Slurry	Braun	Na	2.79E+08	
B107	Na TOT	1/19/76			2.78E+02	g/L	G	Sludge	Wastren	Na	2.78E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 3	1.3	2.14E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.78E+08	
U110	Na	11/15/89	89-049		173627	ugm/gm	G	Sludge	Braun	Na	2.78E+08	
B110	Sodium	4/1/90	CORE 3 SEGMENT 3	1.3	2.13E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.77E+08	
S111	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.77E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 5	1.28	2.16E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.76E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.08E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.76E+08	
A106	Na	3/13/86			2.76E+02	g/L	G	Sludge	Wastren	Na	2.76E+08	
A106	Na	1/5/88	A2xcxxxx R-20	1.54	1.79E+05	ug/g	I	Composite Composite	RAW	Na	2.76E+08	
A106	Sodium	3/13/86	A2XCOOXX	1.54	179000	ugm/gm	G	Sludge/Composite	Braun	Na	2.76E+08	
C204	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
U104	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
C203	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
C202	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
C201	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
BX106	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
BX105	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
BX104	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
U101	Na +				1.20E+01	moles/L	S		HTCE Inv.	Na	2.75E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 3	1.17	2.35E+05	ug/g	I		B110 Core Data	Na	2.75E+08	
TX112	Na	1/21/74	T-832		1.20E+01	M	O	green, 90% sludge	RAW	Na	2.75E+08	
B110	Sodium	4/1/90	Core Composite 2	1.33	2.06E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.74E+08	
C106	Na	4/1/90			2.73E+02	g/L	G	Sludge	Wastren	Na	2.73E+08	
S110	Na	12/17/74		1.536	1.18E+01	M	S		RAW	Na	2.72E+08	
A102	Na +				1.18E+01	moles/L	S		HTCE Inv.	Na	2.71E+08	
A103	Na	2/24/87	B1xcooxx R-17	1.34	2.02E+05	ug/g	I	Composite Composite	RAW	Na	2.71E+08	
A103	Sodium	3/26/86	B1XCOOXX	1.34	202000	ugm/gm	G	Sludge/Composite	Braun	Na	2.71E+08	
SX103	Na +				1.18E+01	moles/L	S		HTCE Inv.	Na	2.71E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	1.97E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.70E+08	
B110	Sodium	4/1/90	Core Composite 18	1.37	1.97E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.70E+08	
A105	Na	1/12/72		1.22	2.20E-01	g/g	S	Dry Solids	RAW	Na	2.68E+08	
B110	Sodium	4/1/90	CORE 18 SEGMENT 5	1.21	2.22E+05	ug/g	I		B110 Core Data	Na	2.68E+08	
S102	Na	12/17/74	T-8008	1.42	1.16E+01	M	S		RAW	Na	2.67E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 3	1.17	2.28E+05	ug/g	I		B110 Core Data	Na	2.67E+08	
B110	Sodium	4/1/90	CORE 10 SEGMENT 3	1.17	2.24E+05	ug/g	I		B110 Core Data	Na	2.62E+08	
BY101	Na +				1.14E+01	moles/L	S		HTCE Inv.	Na	2.62E+08	
BY109	Na +				1.14E+01	moles/L	S		HTCE Inv.	Na	2.61E+08	
BY111	Na +				1.13E+01	moles/L	S		HTCE Inv.	Na	2.61E+08	
BY102	Na +				1.13E+01	moles/L	S		HTCE Inv.	Na	2.61E+08	
S102	Na	12/28/75	T-1018	1.4	1.13E+01	M	D	Suspended Solids	RAW	Na	2.61E+08	
BY112	Na +				1.12E+01	moles/L	S		HTCE Inv.	Na	2.58E+08	
AX101	Na +				1.12E+01	moles/L	S		HTCE Inv.	Na	2.58E+08	
TX114	Na				1.70E+05	g-moles	S		TRAC	Na	2.58E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 1	1.24	2.08E+05	ug/g	I	DUPLICATE	B110 Core Data	Na	2.58E+08	
BY104	Na	10/26/92	riser 5		1.60E+05	ug/g	S	fusion digestion	RAW	Na	2.56E+08	
BY104	Na	11/12/92	R-1773		160000	ugm/gm	T	Crust	Braun	Na	2.56E+08	
TY105	Na				2.10E+05	g-moles	S		TRAC	Na	2.55E+08	
TX118	Na	1/28/80	RAT-TX118-1	1.341	19	wt. %	S	Solids	Braun	Na	2.55E+08	
BY103	Na +				1.11E+01	moles/L	S		HTCE Inv.	Na	2.55E+08	
SX105	Na	2/1/77	RAT-SX105-2	1.06	24	wt. %	A	Salts	Braun	Na	2.54E+08	
SX105	Na	2/1/77			2.54E+02	g/L	K	Saltcake	Wastren	Na	2.54E+08	
TY104	Na	8/6/85	232S0000	1.85	137000	ugm/gm	G	Sludge/Composite	Braun	Na	2.53E+08	
U110	Sodium	12/1/89	Core 14 Segment 4	1.62	1.55E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	2.52E+08	
C106	Na	4/1/90	1		1.56E+05	mg/kg	S		RAW	Na	2.50E+08	
C106	Na	2/1/91			1.56E+05	mg/kg	S	KOH Fusion	RAW	Na	2.50E+08	
BY104	Na				2.40E+06	g-moles	S		TRAC	Na	2.47E+08	
BY106	Na +				1.07E+01	moles/L	S		HTCE Inv.	Na	2.46E+08	
TY105	Na	9/18/80	RAT-TY105-2	1.44	17.09	wt. %	G	Sludge	Braun	Na	2.46E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Sodium	4/1/90	CORE 4 SEGMENT 2	1.3	1.89E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.46E+08	
BX110	Na	2/14/79	1010-C	1.44	17	wt. %	G.	Sludge	Braun	Na	2.45E+08	
BY104	Na	10/26/92	riser 5		1.52E+05	ug/g	S	water digestion	RAW	Na	2.43E+08	
BX102	Na +				1.06E+01	moles/L	S		HTCE Inv.	Na	2.43E+08	
SX104	Na +				1.05E+01	moles/L	S		HTCE Inv.	Na	2.42E+08	
BX103	Na +				1.05E+01	moles/L	S		HTCE Inv.	Na	2.42E+08	
BX111	Na +				1.05E+01	moles/L	S		HTCE Inv.	Na	2.41E+08	
U110	Sodium	12/1/89	Core 15 Segment 4	1.31	1.84E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	2.41E+08	
TY105	Na +	9/18/80			1.50E+01	wt %	I	core composite	RAW	Na	2.40E+08	
TX118	Na	2/3/77	RAT-TX118-1	1.26	19	wt. %	S	Solids	Braun	Na	2.39E+08	
B110	Sodium	4/1/90	CORE 2 SEGMENT 1	1.24	1.93E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.39E+08	
S107	Na	10/16/78	4251	1.525	1.04E+01	M	A	Salt Well	RAW	Na	2.39E+08	
U110	Sodium	12/1/89	Core 14 Segment 4	1.62	1.47E+05	ug/g	I	PRIMARY	U110 Core Data	Na	2.39E+08	
S110	Na +				1.04E+01	moles/L	S		HTCE Inv.	Na	2.38E+08	
C105	Na				1.03E+07	g-moles	S		TRAC	Na	2.38E+08	
SX102	Na	9/3/80			2.37E+02	g/L	K	Saltcake	Wastren	Na	2.37E+08	
SX102	Na	9/3/80	T-2959	1.555	10.3	moles/l	S	Supernate/Solids	Braun	Na	2.37E+08	
SX102	Na TOT	5/9/75	Na TOT	1.3	7.99E+00	mol/l	S	Solids	RAW	Na	2.37E+08	
BY105	Na +				1.03E+01	moles/L	S		HTCE Inv.	Na	2.36E+08	
U110	Na	12/3/89	89-080		147298	ugm/gm	G	Sludge	Braun	Na	2.36E+08	
BX101	Na +				1.02E+01	moles/L	S		HTCE Inv.	Na	2.34E+08	
SX103	Na	9/17/76	RAT-SX103-3	0.84	27.8	wt. %	A	Salts	Braun	Na	2.34E+08	
U110	Sodium	12/1/89	Core 15 Segment 4	1.31	1.78E+05	ug/g	I	PRIMARY	U110 Core Data	Na	2.33E+08	
s104	Sodium	8/1/92	B08S50	1.6	1.45E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.32E+08	
s104	Sodium	8/1/92	B08S50		1.45E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.32E+08	
B101	Na				3.62E+05	g-moles	S		TRAC	Na	2.31E+08	
BX109	Na +				1.00E+01	moles/L	S		HTCE Inv.	Na	2.31E+08	
U110	Na	9/19/89	89-040/1		144203	ugm/gm	G	Sludge/Composite	Braun	Na	2.31E+08	
BY107	Na +				1.00E+01	moles/L	S		HTCE Inv.	Na	2.30E+08	
S104	Na	4/13/90			2.29E+02	g/L	G	Sludge	Wastren	Na	2.29E+08	
BY104	Na +				9.92E+00	moles/L	S		HTCE Inv.	Na	2.28E+08	
T104	Na	11/13/79	RAT-T104-1	1.31	17.3	wt. %	G	Sludge	Braun	Na	2.27E+08	
s104	Sodium	8/1/92	B08S50	1.6	1.41E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.26E+08	
s104	Sodium	8/1/92	B08S50		1.41E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.26E+08	
t107	Sodium	3/1/93	B08VR2	1.735	1.30E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	2.26E+08	
TX103	Na	4/9/76	T-4138	1.43	9.80E+00	M	D	suspended solids	RAW	Na	2.25E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	1.46E+05	ug/g	I	PRIMARY	U110 Core Data	Na	2.25E+08	
BX105	Na	1/5/88	81xcxxxxR-4	1.58	1.42E+05	ug/g	I	Composite	RAW	Na	2.24E+08	
BX105	Sodium	3/3/86	81XCOOXX	1.58	142000	ugm/gm	G	Sludge/Composite	Braun	Na	2.24E+08	
TX102	Na	2/3/81	RAT-TX102-1	1.446	9.72	moles/l	S	Supernate/Solids	Braun	Na	2.24E+08	
TX102	Na	2/3/81			2.23E+02	g/L	G	Sludge	Wastren	Na	2.23E+08	
TX114	Na TOT	2/10/81	Na TOT	1.431	9.48E+00	M	S		RAW	Na	2.22E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
C104	Na				4.68E+06	g-moles	S		TRAC	Na	2.22E+08	
TX108	Na	1/21/74	T-656	1.403	9.60	M	Q	clear yellow crystals	RAW	Na	2.21E+08	
SX102	Na TOT	4/28/75	Na TOT	1.88	8.02E+00	mol/l	S	Solids	RAW	Na	2.21E+08	
SX102	Na	4/18/75	RAT-SX102-1	1.88	9.59	moles/l	S	Supernate/Solids	Braun	Na	2.21E+08	
B103	Na +				9.55E+00	moles/L	S		HTCE Inv.	Na	2.20E+08	
B110	Sodium	4/1/90	CORE 1 SEGMENT 2	1.3	1.68E+05	ug/g	I	PRIMARY	B110 Core Data	Na	2.18E+08	
A106	Na +				9.48E+00	moles/L	S		HTCE Inv.	Na	2.18E+08	
t107	Sodium	3/1/93	B08VR2	1.735	1.25E+05	ug/g	S	PRIMARY RESULT	TCD	Na	2.17E+08	
B106	Na +				9.42E+00	moles/L	S		HTCE Inv.	Na	2.17E+08	
U105	Na	3/9/76		1.52	9.40E+00	mol/l	G	Sludge	RAW	Na	2.16E+08	
U105	Na	3/9/76	RAT-U105-1	1.52	9.4	moles/l	G	Sludge	Braun	Na	2.16E+08	
B102	Na +				9.40E+00	moles/L	S		HTCE Inv.	Na	2.16E+08	
TX103	Na	1/21/74	T-817		9.31E+00	M	G	90% sludge	RAW	Na	2.14E+08	
TX103	Na	1/21/74	T-817		9.31	moles/l	G	Sludge	Braun	Na	2.14E+08	
BY110	Na +				9.28E+00	moles/L	S		HTCE Inv.	Na	2.13E+08	
U102	Na	3/1/76			2.12E+02	g/L	G	Sludge	Wastren	Na	2.12E+08	
C108	Na +				9.21E+00	moles/L	S		HTCE Inv.	Na	2.12E+08	
U102	Na	3/1/76		1.38	9.20E+00	mol/l	S	Bottom Chunk	RAW	Na	2.12E+08	
U102	Na	3/1/76	RAT-U102-1	1.27	9.2	moles/l	S	Solids	Braun	Na	2.12E+08	
U102	Na	3/1/76	RAT-U102-1	1.38	9.2	moles/l	S	Solids	Braun	Na	2.12E+08	
U102	Na	3/1/76	RAT-U102-1	1.6	9.2	moles/l	S	Solids	Braun	Na	2.12E+08	
s104	Sodium	8/1/92	B08TF6	1.6	1.32E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.11E+08	
s104	Sodium	8/1/92	B08TF6		1.32E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.11E+08	
U110	Na	11/10/89	89-043/4/5		131801	ugm/gm	G	Sludge/Composite	Braun	Na	2.11E+08	
TY104	Na	8/6/85	241SOOOO	1.77	119000	ugm/gm	G	Sludge/Composite	Braun	Na	2.11E+08	
SX102	Na	11/26/74		1.74	9.11E+00	M	G	Sludge (Top Layer)	RAW	Na	2.10E+08	
SX102	Na	11/26/74	RAT-SX102-2A	1.74	9.11	moles/l	G	Sludge	Braun	Na	2.10E+08	
A103	Na +				9.10E+00	moles/L	S		HTCE Inv.	Na	2.09E+08	
B105	Na +				9.10E+00	moles/L	S		HTCE Inv.	Na	2.09E+08	
s104	Sodium	8/1/92	B08TF6	1.6	1.30E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.08E+08	
s104	Sodium	8/1/92	B08TF6		1.30E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.08E+08	
s104	Sodium	8/1/92	B08S50	1.6	1.29E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.06E+08	
s104	Sodium	8/1/92	B08S50		1.29E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.06E+08	
s104	Sodium	8/1/92	B08S50	1.6	1.29E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.06E+08	
s104	Sodium	8/1/92	B08S50		1.29E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	2.06E+08	
S101	Na +				8.91E+00	moles/L	S		HTCE Inv.	Na	2.05E+08	
TX102	Na TOT	2/10/81	Na TOT	1.44	8.28E+00	M	O	saltwell samples, 55% solid	RAW	Na	2.04E+08	
B112	Na +				8.84E+00	moles/L	S		HTCE Inv.	Na	2.03E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	1.32E+05	ug/g	I	PRIMARY	U110 Core Data	Na	2.03E+08	
SX114	Na +				8.79E+00	moles/L	S		HTCE Inv.	Na	2.02E+08	
AX103	Na +				8.73E+00	moles/L	S		HTCE Inv.	Na	2.01E+08	
S108	Na				3.30E+05	g-moles	S		TRAC	Na	2.00E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
s104	Sodium	8/1/92	B08TF6	1.6	1.25E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.00E+08	
s104	Sodium	8/1/92	B08TF6		1.25E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	2.00E+08	
T108	Na +	9/24/65		1.403	2.00E+02	g/l	G	sludge	RAW	Na	2.00E+08	
S104	Na	6/24/93	F-2171		125000	ugm/gm	G	Sludge	Braun	Na	2.00E+08	
AX104	Na				2.12E+05	g-moles	S		TRAC	Na	2.00E+08	
TY101	Na	9/1/85		1.64	1.21E+05	ug/g	I	core composite	RAW	Na	1.98E+08	
TY101	Na	9/11/85	51XC0000	1.64	121000	ugm/gm	G	Sludge/Composite	Braun	Na	1.98E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.24E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.98E+08	
s104	Sodium	8/1/92	B08TF7		1.24E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.98E+08	
s104	Sodium	8/1/92	B08TF6	1.6	1.24E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.98E+08	
s104	Sodium	8/1/92	B08TF6		1.24E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.98E+08	
TY101	Na	9/11/85			1.98E+02	g/L	G	Sludge	Wastren	Na	1.98E+08	
s104	Sodium	8/1/92	B08TL4	1.6	1.23E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.97E+08	
s104	Sodium	8/1/92	B08TL4		1.23E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.97E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	1.27E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.96E+08	
TY103	Na	9/1/85	31XCXXXX	1.7	1.15E+05	ug/g	I	Core composite	RAW	Na	1.96E+08	
TY103	Na	8/21/85	31XC0000	1.7	115000	ugm/gm	G	Sludge/Composite	Braun	Na	1.96E+08	
s104	Sodium	8/1/92	B08TL3	1.6	1.22E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.95E+08	
s104	Sodium	8/1/92	B08TL3		1.22E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.95E+08	
s104	Sodium	8/1/92	B08S46	1.6	1.22E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.95E+08	
s104	Sodium	8/1/92	B08S46		1.22E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.95E+08	
BY106	Na				9.00E+05	g-moles	S		TRAC	Na	1.95E+08	
BY108	Na +				8.46E+00	moles/L	S		HTCE Inv.	Na	1.95E+08	
A102	Na	1/16/73		1.62	1.20E-01	g/g	G	Sludge	RAW	Na	1.94E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	1.31E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.94E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.21E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.94E+08	
s104	Sodium	8/1/92	B08TF7		1.21E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.94E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.21E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.94E+08	
s104	Sodium	8/1/92	B08TJ5		1.21E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.94E+08	
AX102	Na +				8.37E+00	moles/L	S		HTCE Inv.	Na	1.92E+08	
s104	Sodium	8/1/92	B08TF6	1.6	1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ4		1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ4		1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TF6		1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ4		1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TJ5		1.20E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TL4	1.6	1.20E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.92E+08	
s104	Sodium	8/1/92	B08TL4		1.20E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.92E+08	
S104	Na	6/24/93	F-2175		120000	ugm/gm	G	Sludge	Braun	Na	1.92E+08	
BX110	Na	9/18/80	RAT-BX110-1	1.45	13.2	wt. %	G	Sludge	Braun	Na	1.91E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Na	11/29/89	89-071		119306	ugm/gm	G	Sludge	Braun	Na	1.91E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TL4	1.6	1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TF7		1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TJ5		1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TL4		1.19E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08S46	1.6	1.19E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.19E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08TJ4		1.19E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.90E+08	
s104	Sodium	8/1/92	B08S46		1.19E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.90E+08	
B109	Na +				8.25E+00	moles/L	S		HTCE Inv.	Na	1.90E+08	
B101	Na +				8.23E+00	moles/L	S		HTCE Inv.	Na	1.89E+08	
s104	Sodium	8/1/92	B08S46	1.6	1.18E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08S48	1.6	1.18E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08S46		1.18E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08S48		1.18E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TF7		1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TJ4		1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08TJ4		1.18E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.89E+08	
s104	Sodium	8/1/92	B08S46	1.6	1.17E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.87E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.17E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.87E+08	
s104	Sodium	8/1/92	B08S46		1.17E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.87E+08	
s104	Sodium	8/1/92	B08TJ5		1.17E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.87E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.17E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.87E+08	
s104	Sodium	8/1/92	B08TF7		1.17E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.87E+08	
C106	Na	5/19/86			1.17E+05	ug/g	I	Composite	RAW	Na	1.87E+08	
C106	Na	4/1/87	3		1.17E+05	mg/kg	S		RAW	Na	1.87E+08	
B108	Na +				8.12E+00	moles/L	S		HTCE Inv.	Na	1.87E+08	
t107	Sodium	3/1/93	B08VFO	1.38	1.35E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.86E+08	
S102	Na	1/20/76	T-1683	1.39	8.10E+00	M	D	Suspended Solids	RAW	Na	1.86E+08	
s104	Sodium	8/1/92	B08TJ4	1.6	1.16E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TJ4		1.16E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TF6	1.6	1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08S48	1.6	1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TF7	1.6	1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TF7		1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TJ5		1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
s104	Sodium	8/1/92	B08S48		1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TF6		1.16E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.86E+08	
s104	Sodium	8/1/92	B08TJ5	1.6	1.15E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.84E+08	
s104	Sodium	8/1/92	B08TL4	1.6	1.15E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.84E+08	
s104	Sodium	8/1/92	B08TL4		1.15E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.84E+08	
s104	Sodium	8/1/92	B08TJ5		1.15E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.84E+08	
TY105	Na	9/13/85	61XCOOOO		115000	ugm/gm	G	Sludge/Composite	Braun	Na	1.84E+08	
s104	Sodium	8/1/92	B08TL3	1.6	1.14E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.82E+08	
s104	Sodium	8/1/92	B08TL3	1.6	1.14E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.82E+08	
s104	Sodium	8/1/92	B08TL3		1.14E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.82E+08	
s104	Sodium	8/1/92	B08TL3		1.14E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.82E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	1.28E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.81E+08	
s104	Sodium	8/1/92	B08TL3	1.6	1.13E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.81E+08	
s104	Sodium	8/1/92	B08TL3		1.13E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.81E+08	
S104	Na	6/24/93	F-2177		113000	ugm/gm	G	Sludge	Braun	Na	1.81E+08	
TY103	Na	9/1/85	32XCXXXX	1.7	1.06E+05	ug/g	I	Core composite	RAW	Na	1.80E+08	
TY103	Na	8/21/85	32XCQOOO	1.7	106000	ugm/gm	G	Sludge/Composite	Braun	Na	1.80E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.38E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.80E+08	
U110	Sodium	12/1/89	Core Composite 7	1.675	1.06E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.78E+08	
s104	Sodium	8/1/92	B08S48	1.6	1.11E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.78E+08	
s104	Sodium	8/1/92	B08S48		1.11E+05	mg/kg	S	PRIMARY RESULT	TCD	Na	1.78E+08	
TX118	Na TOT	1/28/80	Na TOT	1.341	7.54E+00	M	S		RAW	Na	1.77E+08	
TY105	Na	9/13/85			1.76E+02	g/L	G	Sludge	Wastren	Na	1.76E+08	
TY105	Na	9/13/85	61XCOOOO	1.53	115000	ugm/gm	G	Sludge/Composite	Braun	Na	1.76E+08	
U110	Sodium	12/1/89	Core Composite 7	1.675	1.05E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.76E+08	
TY106	Na	7/31/85	111COOOO	1.31	134000	ugm/gm	G	Sludge/Composite	Braun	Na	1.76E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.27E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.75E+08	
B105	Na TOT	1/16/76			1.74E+02	g/L	G	Sludge	Wastren	Na	1.74E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.25E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.73E+08	
U110	Na	11/15/89	89-046/7/8/9		106350	ugm/gm	G	Sludge/Composite	Braun	Na	1.70E+08	
s104	Sodium	8/1/92	B08S48	1.6	1.06E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.70E+08	
s104	Sodium	8/1/92	B08S48		1.06E+05	mg/kg	S	DUPLICATE RESULT	TCD	Na	1.70E+08	
c112	Sodium	3/1/92	B08DN8	1.6	1.06E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.70E+08	
c112	Sodium	3/1/92	B08DN8	1.6	1.06E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.69E+08	
c112	Sodium	3/1/92	B08DN8	1.6	1.06E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.69E+08	
C106	Na	4/14/87		1.43	1.17E+05	ug/G	S		RAW	Na	1.67E+08	
C106	Na	4/17/87	G1xcxxxxR-1	1.43	1.17E+05	ug/g	I	Composite	RAW	Na	1.67E+08	
C106	Na	5/19/86	G1XCOOXX	1.43	117000	ugm/gm	G	Sludge/Composite	Braun	Na	1.67E+08	
c112	Sodium	3/1/92	B08DN8	1.6	1.04E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.67E+08	
SX109	Na +				7.25E+00	moles/L	S		HTCE Inv.	Na	1.67E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.40E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.67E+08	
BX107	Na	10/20/92	J924-AV		103946.82	ugm/gm	G	Sludge/Composite	Braun	Na	1.66E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TY104	Na	8/16/85			1.66E+02	g/L	G	Sludge	Wastren	Na	1.66E+08	
TY104	Na	8/16/85	261S0000	1.48	112000	ugm/gm	G	Sludge/Composite	Braun	Na	1.66E+08	
BX107	Na	10/20/92	J925-AV		103500	ugm/gm	G	Sludge/Composite	Braun	Na	1.66E+08	
S102	Na (+)	11/16/73	459	1.29	7.18E+00	M	S	Solids	RAW	Na	1.65E+08	
c112	Sodium	3/1/92	B08DY1	2	8.20E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.64E+08	
BX107	Na	10/20/92	J926-AV		102000	ugm/gm	G	Sludge/Composite	Braun	Na	1.63E+08	
BX107	Na	10/20/92	J925-AV		101924.44	ugm/gm	G	Sludge/Composite	Braun	Na	1.63E+08	
c112	Sodium	3/1/92	B08DY1	2	8.11E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.62E+08	
B111	Na	4/15/93	93-4312H1		101042	ugm/gm	G	Sludge	Braun	Na	1.62E+08	
BX107	Na	10/20/92	J926-AV		100698.72	ugm/gm	G	Sludge/Composite	Braun	Na	1.61E+08	
c112	Sodium	3/1/92	B08DM7	1.6	1.01E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.61E+08	
C101	Na +				6.99E+00	moles/L	S		HTCE Inv.	Na	1.61E+08	
U110	Sodium	12/1/89	Core Composite 5	1.04	1.55E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.61E+08	
BX110	Na +				6.98E+00	moles/L	S		HTCE Inv.	Na	1.61E+08	
TY103	Na	2/1/80	RAT-TY103-2	1.5	10.69	wt. %	G	Sludge	Braun	Na	1.60E+08	
U110	Na	12/15/89	89-070/1/2		100150	ugm/gm	G	Sludge/Composite	Braun	Na	1.60E+08	
t107	Sodium	3/1/93	B08VFO	1.38	1.16E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.60E+08	
BX107	Na	10/20/92	J924-AV		100000	ugm/gm	G	Sludge/Composite	Braun	Na	1.60E+08	
BX107	Na	10/20/92	J927-AV		100000	ugm/gm	G	Sludge/Composite	Braun	Na	1.60E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.93E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.59E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	1.03E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.58E+08	
A103	- Na -	12/18/72			9.90E-02	g/g	S	Fine	RAW	Na	1.58E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.21E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.58E+08	
c112	Sodium	3/1/92	B08DY1	2	7.85E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.57E+08	
SX110	Na +				6.83E+00	moles/L	S		HTCE Inv.	Na	1.57E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.21E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.57E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.76E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.56E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.20E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.56E+08	
U110	Sodium	12/1/89	Core Composite 5	1.04	1.50E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.56E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.31E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.56E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.30E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.55E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.30E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.55E+08	
TX103	Na +	10/24/65		1.329	1.54E+02	g/l	G	sludge	RAW	Na	1.54E+08	
B104	Na +				6.67E+00	moles/L	S		HTCE Inv.	Na	1.54E+08	
S102	Na	5/13/74	T-3601	1.284	6.66E+00	M	S		RAW	Na	1.53E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.56E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.53E+08	
c112	Sodium	3/1/92	B08DY1	2	7.64E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.53E+08	
BX107	Na	10/20/92	J927-AV		95020.759	ugm/gm	G	Sludge/Composite	Braun	Na	1.52E+08	
b111	Sodium	10/1/91	B08XB7	1.3	1.17E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.52E+08	
B111	Na	4/15/93	93-4316H1		94845	ugm/gm	G	Sludge	Braun	Na	1.52E+08	
S107	Na +				6.58E+00	moles/L	S		HTCE Inv.	Na	1.51E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.16E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.51E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
B111	Na	3/8/93	91-10553H-1T		94023	ugm/gm	G	Sludge	Braun	Na	1.50E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.09E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.50E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.38E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.50E+08	
BX112	Na +				6.52E+00	moles/L	S		HTCE Inv.	Na	1.50E+08	
U110	Sodium	12/1/89	Core Composite 5	1.04	1.44E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.50E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.08E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.49E+08	
U110	Na	11/30/89	89-076		93097	ugm/gm	G	Sludge	Braun	Na	1.49E+08	
SX115	Na +				6.47E+00	moles/L	S		HTCE Inv.	Na	1.49E+08	
c112	Sodium	3/1/92	B08DY1	2	7.40E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.48E+08	
U110	Sodium	12/1/89	Core Composite 5	1.04	1.42E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.48E+08	
BX109	Na				1.70E+05	g-moles	S		TRAC	Na	1.47E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.20E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.47E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.17E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.47E+08	
U110	Na	12/3/89	89-077/8/9/0		91462	ugm/gm	G	Sludge/Composite	Braun	Na	1.46E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.06E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.46E+08	
t107	Sodium	3/1/93	B08VD9	1.305	1.12E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.46E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.11E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.46E+08	
c112	Sodium	3/1/92	B08DM7	1.6	9.11E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.46E+08	
c112	Sodium	3/1/92	B08DY1	2	7.24E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.45E+08	
c112	Sodium	3/1/92	B08DN8	1.6	9.01E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.44E+08	
U110	Sodium	12/1/89	Core 12 Segment 2	1.77	8.11E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.44E+08	
t107	Sodium	3/1/93	B08VF0	1.38	1.04E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.44E+08	
c112	Sodium	3/1/92	B08DY1	2	7.13E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.43E+08	
c112	Sodium	3/1/92	B08DY1	2	7.13E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.43E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	1.00E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.42E+08	
U110	Na	12/4/89	89-082/3/4		87964	ugm/gm	G	Sludge/Composite	Braun	Na	1.41E+08	
U110	Na +				6.12E+00	moles/L	S		HTCE Inv.	Na	1.41E+08	
U110	Sodium	12/1/89	Core 12 Segment 2	1.77	7.95E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.41E+08	
U110	Sodium	12/1/89	Core Composite 7	1.675	8.39E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.41E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.08E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.40E+08	
U110	Sodium	12/1/89	Core Composite 5	1.04	1.35E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.40E+08	
c109	Sodium	9/1/92	B08T17	1.2	1.17E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.40E+08	
TY103	Na	8/21/85			1.40E+02	g/L	G	Sludge	Wastren	Na	1.40E+08	
TY104	Na	8/6/85	251SXXXX	1.66	8.42E+04	ug/g	I	core composite	RAW	Na	1.40E+08	
TY104	Na	8/14/85	251SOOOO	1.66	84200	ugm/gm	G	Sludge/Composite	Braun	Na	1.40E+08	
BX105	Na	1/5/88	82xcxxxxR-8	1.79	7.78E+04	ug/g	I	Composite	RAW	Na	1.39E+08	
BX105	Sodium	3/4/86	82XCOOXX	1.79	77800	ugm/gm	G	Sludge/Composite	Braun	Na	1.39E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.17E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.39E+08	
c112	Sodium	3/1/92	B08DY1	2	6.95E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.39E+08	
c109	Sodium	9/1/92	B08T17	1.2	1.16E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.39E+08	
BX105	Na	3/4/86			1.39E+02	g/L	G	Sludge	Wastren	Na	1.39E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.69E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.39E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c112	Sodium	3/1/92	B08DY1	2	6.94E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.39E+08	
B110	Na +				6.02E+00	moles/L	S		HTCE Inv.	Na	1.38E+08	
U110	Na	11/10/89	89-044		86491	ugm/gm	G	Sludge	Braun	Na	1.38E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.06E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.38E+08	
B111	Na +				5.99E+00	moles/L	S		HTCE Inv.	Na	1.38E+08	
U110	Na	11/15/89	89-048		86006	ugm/gm	G	Sludge	Braun	Na	1.38E+08	
c112	Sodium	3/1/92	B08DY1	2	6.87E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.37E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.15E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.37E+08	
c112	Sodium	3/1/92	B08DM6	1.5	9.11E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.37E+08	
BX112	Na	6/11/79	RAT-BX112-1	1.22	11.2	wt.%	G	Sludge	Braun	Na	1.37E+08	
t107	Sodium	3/1/93	B08V44	1.1	1.24E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.36E+08	
c112	Sodium	3/1/92	B08DY1	2	6.82E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.36E+08	
c112	Sodium	3/1/92	B08DM6	1.5	9.09E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.36E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.52E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.36E+08	
U110	Sodium	12/1/89	Core 13 Segment 4	1.46	9.31E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.36E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.49E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.36E+08	
C104	Na	8/23/77	9172		5.90E+00	M	G	Sludge	RAW	Na	1.36E+08	
C104	Na	8/23/77	9172-A		5.9	moles/l	G	Sludge	Braun	Na	1.36E+08	
B111	Na	3/8/93	92-04054H-1T		84791	ugm/gm	G	Sludge	Braun	Na	1.36E+08	
U110	Sodium	12/1/89	Core Composite 15	1.29	1.05E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.35E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	9.15E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.35E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.46E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.35E+08	
A105	Na +				5.87E+00	moles/L	S		HTCE Inv.	Na	1.35E+08	
AX104	Na +				5.87E+00	moles/L	S		HTCE Inv.	Na	1.35E+08	
TY106	Na	9/4/85		1.31	1.03E+05	ug/g	I	core composite	RAW	Na	1.34E+08	
C107	Na +				5.84E+00	moles/L	S		HTCE Inv.	Na	1.34E+08	
T106	Na	2/27/75			1.34E+02	g/L	G	Sludge	Wastren	Na	1.34E+08	
bx107	Sodium	6/1/92	B08SF0	1.326	1.01E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.34E+08	
bx107	Sodium	6/1/92	B08SF0	1.326	1.01E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.34E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.37E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.34E+08	
C110	Na +				5.82E+00	moles/L	S		HTCE Inv.	Na	1.34E+08	
BX108	Na +				5.82E+00	moles/L	S		HTCE Inv.	Na	1.34E+08	
BX107	Na +				5.82E+00	moles/L	S		HTCE Inv.	Na	1.34E+08	
B107	Na +				5.82E+00	moles/L	S		HTCE Inv.	Na	1.34E+08	
T106	Na	4/22/75		1.29	5.82E+00	mol/l	G	sludge	RAW	Na	1.34E+08	
T106	Na	2/27/75	RAT-T106-1	1.29	5.82	moles/l	G	Sludge	Braun	Na	1.34E+08	
B111	Na	3/8/93	92-04062H-1T		83626	ugm/gm	G	Sludge	Braun	Na	1.34E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.03E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.34E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.35E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.34E+08	
c112	Sodium	3/1/92	B08DY1	2	6.68E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.34E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.34E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.33E+08	
TY101	Na (+)	9/18/80		1.493	8.90E+00	wt %	K	saltcake	RAW	Na	1.33E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code			Analyte	ug/L	
c112	Sodium	3/1/92	B08DM7	1.6	8.28E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.32E+08	
SX101	Na +				5.75E+00	moles/L	S		HTCE Inv.	Na	1.32E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.25E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.32E+08	
t107	Sodium	3/1/93	B08V44	1.1	1.20E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.32E+08	
U110	Sodium	12/1/89	Core 7 Segment 3	1.53	8.60E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.32E+08	
c109	Sodium	9/1/92	B08T16	1.3	1.01E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.31E+08	
t107	Sodium	3/1/93	B08V43	1.15	1.14E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.31E+08	
U110	Sodium	12/1/89	Core 7 Segment 3	1.53	8.56E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.31E+08	
b111	Sodium	10/1/91	B08XB7	1.3	1.01E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.31E+08	
c112	Sodium	3/1/92	B08DY1	2	6.53E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.31E+08	
bx107	Sodium	6/1/92	B08SFO	1.326	9.82E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.30E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.13E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.30E+08	
t107	Sodium	3/1/93	B08V43	1.15	1.13E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.30E+08	
U110	Na	12/4/89	89-083		81171	ugm/gm	G	Sludge	Braun	Na	1.30E+08	
U110	Na	11/29/89	89-070		81120	ugm/gm	G	Sludge	Braun	Na	1.30E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	9.13E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.30E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	8.75E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.30E+08	
BX104	Na	1/5/88	71xcxxxxR-1	1.85	6.98E+04	ug/g	I	Composite	RAW	Na	1.29E+08	
BX104	Sodium	2/14/86	71XCOOXX	1.85	69800	ugm/gm	G	Sludge/Composite	Braun	Na	1.29E+08	
c109	Sodium	9/1/92	B08T16	1.3	9.93E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.29E+08	
C110	Na	6/10/77	9501		5.60E+00	M	G	Sludge	RAW	Na	1.29E+08	
C110	Na	8/31/77	T-9501-34		5.6	moles/l	G	Sludge	Braun	Na	1.29E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.05E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.29E+08	
t107	Sodium	3/1/93	B08VD9	1.305	9.85E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.29E+08	
t107	Sodium	3/1/93	B08VB9	1.19	1.08E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.29E+08	
c112	Sodium	3/1/92	B08DM7	1.6	8.01E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.28E+08	
BX107	Na	10/20/92	J925-AV		80100	ugm/gm	G	Sludge/Composite	Braun	Na	1.28E+08	
S111	Na TOT	5/29/74	RAT-S111-2	1.348			G	Sludge	Braun	Na	1.28E+08	
U109	Na TOT	11/12/75			1.28E+02	g/L	G	Sludge	Wastren	Na	1.28E+08	
c109	Sodium	9/1/92	B08T16	1.3	9.83E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.28E+08	
U110	Na	11/10/89	89-043		79677	ugm/gm	G	Sludge	Braun	Na	1.27E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.95E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.27E+08	
bx107	Sodium	6/1/92	B08SFO	1.326	9.59E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.27E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.93E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.27E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.93E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.27E+08	
U110	Na	11/30/89	89-075		79266	ugm/gm	G	Sludge	Braun	Na	1.27E+08	
U110	Sodium	12/1/89	Core 6 Segment 2	1.59	7.97E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.27E+08	
C106	Na +				5.50E+00	moles/L	S		HTCE Inv.	Na	1.27E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.89E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.26E+08	
U110	Na	11/30/89	89-073/4/5/6		78507	ugm/gm	G	Sludge/Composite	Braun	Na	1.26E+08	
U110	Sodium	12/1/89	Core 13 Segment 4	1.46	8.59E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.25E+08	
U110	Sodium	12/1/89	Core Composite 15	1.29	9.72E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.25E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TY105	Na	9/13/85		1.53	8.18E+04	ug/g	I	core composite	RAW	Na	1.25E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.82E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.25E+08	
T112	Na +	9/24/65		1.248	1.25E+02	g/l	G	sludge	RAW	Na	1.25E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.79E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.25E+08	
c109	Sodium	9/1/92	B08T15	1.2	1.04E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.24E+08	
U102	Na	3/1/76		1.6	5.40E+00	mol/l	S	Top Solid	RAW	Na	1.24E+08	
U102	Na	3/1/76	RAT-U102-1	1.27	5.4	moles/l	S	Supernate/Solids	Braun	Na	1.24E+08	
U102	Na	3/1/76	RAT-U102-1	1.38	5.4	moles/l	S	Supernate/Solids	Braun	Na	1.24E+08	
U102	Na	3/1/76	RAT-U102-1	1.6	5.4	moles/l	S	Supernate/Solids	Braun	Na	1.24E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	8.69E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.23E+08	
b111	Sodium	10/1/91	B08XB3	1.3	9.48E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.23E+08	
TY104	Na	9/18/80	RAT-TY104-2	1.57	7.8	wt. %	G	Sludge	Braun	Na	1.22E+08	
b111	Sodium	10/1/91	B08XB3	1.3	9.40E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.22E+08	
c109	Sodium	9/1/92	B08T15	1.2	1.02E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.22E+08	
c112	Sodium	3/1/92	B08DY1	2	6.07E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.21E+08	
c109	Sodium	9/1/92	B08T16	1.3	9.33E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.21E+08	
U110	Na	9/19/89	89-040		75687	ugm/gm	G	Sludge	Braun	Na	1.21E+08	
c112	Sodium	3/1/92	B08DY1	2	6.04E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.21E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	7.84E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.21E+08	
SX111	Na +				5.24E+00	moles/L	S		HTCE Inv.	Na	1.20E+08	
U110	Sodium	12/1/89	Core 6 Segment 2	1.59	7.56E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.20E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.50E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.20E+08	
c112	Sodium	3/1/92	B08DM7	1.6	7.48E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.20E+08	
U110	Sodium	12/1/89	Core 12 Segment 3	1	1.19E+05	ug/g	I	PRIMARY	U110 Core Data	Na	1.19E+08	
BX104	Na	1/5/88	72xcxxxxR-8	1.76	6.75E+04	ug/g	I	Composite	RAW	Na	1.19E+08	
C103	Na	5/1/75	T-4073	1.16	5.16E+00	M	S		RAW	Na	1.19E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	8.02E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.19E+08	
t107	Sodium	3/1/93	B08TZ3	0.95	1.24E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.18E+08	
b111	Sodium	10/1/91	B08XB3	1.3	9.03E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.17E+08	
SX114	Na TOT	12/3/62	Na TOT		5.10E+00	M	G	Sludge	RAW	Na	1.17E+08	
t107	Sodium	3/1/93	B08V43	1.15	1.02E+05	ug/g	S	PRIMARY RESULT	TCD	Na	1.17E+08	
S102	Na	11/5/73		1.23	5.09E+00	M	S	Solids	RAW	Na	1.17E+08	
TY105	Na +	10/1/85		1.44	8.12E+00	wt %	I	core composite	RAW	Na	1.17E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	8.20E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.16E+08	
C104	Na	4/15/86			1.16E+02	g/L	G	Sludge	Wastren	Na	1.16E+08	
BY105	Na				1.03E+06	g-moles	S		TRAC	Na	1.16E+08	
C104	Na	4/15/86	D1XCOOXX	1.21	95500	ugm/gm	G	Sludge/Composite	Braun	Na	1.16E+08	
TY104	Na	12/20/79	RAT-TY104-1	1.41	8.174	wt. %	G	Sludge	Braun	Na	1.15E+08	
BX107	Na	10/20/92	J927-AV		71998.615	ugm/gm	G	Sludge/Composite	Braun	Na	1.15E+08	
t107	Sodium	3/1/93	B08TZ2	1.29	8.93E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.15E+08	
C107	Na	9/26/77	510 Bottom		5.00E+00	M	S		RAW	Na	1.15E+08	
C107	Na	9/26/77	T-510-27		5	moles/l	G	Sludge	Braun	Na	1.15E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
C107	Na	9/26/77	T-510-28		5	moles/l	G	Sludge	Braun	Na	1.15E+08	
t107	Sodium	3/1/93	B08T23	0.95	1.21E+05	ug/g	S	DUPLICATE RESULT	TCD	Na	1.15E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	7.75E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.15E+08	
U110	Sodium	12/1/89	Core Composite 14	1.48	7.71E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.14E+08	
t107	Sodium	3/1/93	B08V43	1.15	9.89E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.14E+08	
U110	Sodium	12/1/89	Core Composite 15	1.29	8.80E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.13E+08	
t107	Sodium	3/1/93	B08V39	1.57	7.20E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.13E+08	
C105	Na	4/1/90			1.13E+02	g/L	G	Sludge	Wastren	Na	1.13E+08	
BX104	Na	2/26/86			1.13E+02	g/L	G	Sludge	Wastren	Na	1.13E+08	
BX104	Sodium	2/26/86	72XCOOXX	1.673	67500	ugm/gm	G	Sludge/Composite	Braun	Na	1.13E+08	
C106	Na	1/24/77		2.44	4.90E+00	M/L	G	Sludge	RAW	Na	1.13E+08	
C106	Na	1/24/77	RAT-C106-3	2.44	4.9	moles/l	G	Sludge	Braun	Na	1.13E+08	
U112	Na +				4.89E+00	moles/L	S		HTCE Inv.	Na	1.12E+08	
A104	Na +				4.88E+00	moles/L	S		HTCE Inv.	Na	1.12E+08	
C105	Na	5/8/87		1.55	7.18E+04	ug/g	I	Composite	RAW	Na	1.11E+08	
C105	Na	4/11/86	C1XCOOXX	1.55	71800	ugm/gm	G	Sludge/Composite	Braun	Na	1.11E+08	
c109	Sodium	9/1/92	B08T17	1.2	9.25E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.11E+08	
b111	Sodium	10/1/91	B08XB7	1.3	8.48E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.10E+08	
t107	Sodium	3/1/93	B08V39	1.57	7.02E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.10E+08	
t107	Sodium	3/1/93	B08V43	1.15	9.57E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.10E+08	
TY106	Na	9/26/85			1.10E+02	g/L	G	Sludge	Wastren	Na	1.10E+08	
b111	Sodium	10/1/91	B08XB7	1.3	8.45E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.10E+08	
TY106	Na	9/26/85	161COOOO	1.43	76800	ugm/gm	G	Sludge/Composite	Braun	Na	1.10E+08	
U110	Na	12/4/89	89-082		68329	ugm/gm	G	Sludge	Braun	Na	1.09E+08	
c109	Sodium	9/1/92	B08T17	1.2	9.08E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.09E+08	
c109	Sodium	9/1/92	B08T17	1.2	9.05E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.09E+08	
C102	Na				3.04E+06	g-moles	S		TRAC	Na	1.09E+08	
c109	Sodium	9/1/92	B08T17	1.2	9.02E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.08E+08	
c109	Sodium	9/1/92	B08T17	1.2	9.02E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.08E+08	
U110	Sodium	12/1/89	Core 6 Segment 3	1.22	8.87E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.08E+08	
U110	Sodium	12/1/89	Core Composite 6	1.54	6.99E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.08E+08	
c112	Sodium	3/1/92	B08DN6	1.3	8.28E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.08E+08	
BX107	Na	10/20/92	J926-AV		66992.475	ugm/gm	G	Sludge/Composite	Braun	Na	1.07E+08	
c109	Sodium	9/1/92	B08T17	1.2	8.92E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.07E+08	
U110	Sodium	12/1/89	Core Composite 12	1.42	7.53E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.07E+08	
U110	Sodium	12/1/89	Core 15 Segment 3	1.3	8.22E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.07E+08	
t107	Sodium	3/1/93	B08T22	1.29	8.26E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.07E+08	
c109	Sodium	9/1/92	B08T17	1.2	8.87E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.06E+08	
U110	Sodium	12/1/89	Core 12 Segment 3	1	1.06E+05	ug/g	I	DUPLICATE	U110 Core Data	Na	1.06E+08	
t107	Sodium	3/1/93	B08V43	1.15	9.23E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.06E+08	
U110	Sodium	12/1/89	Core Composite 15	1.29	8.20E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.06E+08	
c109	Sodium	9/1/92	B08T17	1.2	8.80E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.06E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Sodium	12/1/89	Core 15 Segment 3	1.3	8.12E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.06E+08	
U110	Sodium	12/1/89	Core 6 Segment 3	1.22	8.65E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.06E+08	
U110	Sodium	12/1/89	Core 5 Segment 4		6.55E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.05E+08	
U110	Na	9/19/89	89-041		65496	ugm/gm	G	Sludge	Braun	Na	1.05E+08	
c112	Sodium	3/1/92	B08DN6	1.3	8.06E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.05E+08	
U110	Sodium	12/1/89	Core 5 Segment 4		6.54E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.05E+08	
U110	Sodium	12/1/89	Core Composite 13	1.3	8.03E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	1.04E+08	
c109	Sodium	9/1/92	B08T17	1.2	8.69E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.04E+08	
C111	Na +				4.53E+00	moles/L	S		HTCE Inv.	Na	1.04E+08	
c109	Sodium	9/1/92	B08T17	1.2	8.66E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.04E+08	
T104	Na	1/26/93	T104-C45-C1		64500	ugm/gm	G	Sludge/Composite	Braun	Na	1.03E+08	
C105	Na	2/1/91			6.44E+04	mg/kg	S	KOH Fusion	RAW	Na	1.03E+08	
U110	Sodium	12/1/89	Core Composite 7	1.675	6.10E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.02E+08	
U110	Sodium	12/1/89	Core Composite 13	1.3	7.85E+04	ug/g	I	PRIMARY	U110 Core Data	Na	1.02E+08	
t107	Sodium	3/1/93	B08V43	1.15	8.87E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
b111	Sodium	10/1/91	B08XB3	1.3	7.82E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.02E+08	
C104	Na	8/23/77	9172		4.40E+00	M	G	Sludge	RAW	Na	1.01E+08	
C104	Na	8/23/77	9172-B		4.4	moles/l	G	Sludge	Braun	Na	1.01E+08	
A106	Na	1/5/88	A1xcxxxx R-17	1.56	6.48E+04	ug/g	I	Composite Composite	RAW	Na	1.01E+08	
A106	Sodium	3/11/86	A1XCOOXX	1.56	64800	ugm/gm	G	Sludge/Composite	Braun	Na	1.01E+08	
S108	Na TOT	6/25/74			9.97E+01	g/L	G	Sludge	Wastren	Na	9.97E+07	
T104	Na	1/26/93	T104-C45-C2		62200	ugm/gm	G	Sludge/Composite	Braun	Na	9.95E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	7.68E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.91E+07	
TY106	Na	12/20/79	RAT-TY106-1	1.54	6.41	wt. %	G	Sludge	Braun	Na	9.87E+07	
BY107	Na				2.60E+05	g-moles	S		TRAC	Na	9.86E+07	
S106	NaOH	6/4/75	RAT-S106-2	1.59	6.2	wt. %	S	Solids	Braun	Na	9.86E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	7.64E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.86E+07	
U110	Sodium	12/1/89	Core Composite 13	1.3	7.58E+04	ug/g	I	PRIMARY	U110 Core Data	Na	9.86E+07	
c109	Sodium	9/1/92	B08T17	1.2	8.20E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.84E+07	
bx107	Sodium	6/1/92	B08SD6	0.996	9.88E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.83E+07	
T107	Na +	9/24/65		1.204	9.80E+01	g/l	G	sludge	RAW	Na	9.80E+07	
U110	Sodium	12/1/89	Core Composite 15	1.29	7.57E+04	ug/g	I	PRIMARY	U110 Core Data	Na	9.77E+07	
c112	Sodium	3/1/92	B08DN6	1.3	7.50E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.75E+07	
t107	Sodium	3/1/93	B08V43	1.15	8.48E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.75E+07	
BX102	Na				9.00E+05	g-moles	S		TRAC	Na	9.74E+07	
c112	Sodium	3/1/92	B08DN6	1.3	7.47E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.71E+07	
t107	Sodium	3/1/93	B08V44	1.1	8.80E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.68E+07	
U110	Sodium	12/1/89	Core Composite 7	1.675	5.78E+04	ug/g	I	PRIMARY	U110 Core Data	Na	9.67E+07	
bx107	Sodium	6/1/92	B08SD6	0.996	9.71E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.67E+07	
B102	Na				5.10E+04	g-moles	S		TRAC	Na	9.67E+07	
U110	Sodium	12/1/89	Core Composite 5	1.04	9.26E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	9.63E+07	
bx107	Sodium	6/1/92	B08SD6	0.996	9.67E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.62E+07	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c109	Sodium	9/1/92	B08T17	1.2	8.01E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.61E+07	
bx107	Sodium	6/1/92	B08SD6	0.996	9.59E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.55E+07	
c112	Sodium	3/1/92	B08DN6	1.3	7.30E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.50E+07	
C108	Na	5/19/86		1.22	9.49E+04	mg/L	I	Composite	RAW	Na	9.49E+07	
TY103	Na	9/18/80	RAT-TY103-1	1.5	6.312	wt. %	G	Sludge	Braun	Na	9.47E+07	
S108	NaOH	7/8/74	RAT-S108-5	1.495	6.3	wt. %	S	Solids	Braun	Na	9.42E+07	
SX112	Na +				4.08E+00	moles/L	S		HTCE Inv.	Na	9.39E+07	
C103	Na	5/8/87	F1XCXXXX	1.54	6.07E+04	ug/g	I	Composite	RAW	Na	9.35E+07	
C103	Na	5/14/86	F2XCOOXX	1.54	60700	ugm/gm	G	Sludge/Composite	Braun	Na	9.35E+07	
c112	Sodium	3/1/92	B08DN6	1.3	7.17E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	9.32E+07	
U110	Sodium	12/1/89	Core Composite 13	1.3	7.16E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	9.31E+07	
t107	Sodium	3/1/93	B08V43	1.15	7.89E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.07E+07	
C109	Na +				3.94E+00	moles/L	S		HTCE Inv.	Na	9.07E+07	
U110	Sodium	12/1/89	Core 13 Segment 3	1.14	7.93E+04	ug/g	I	PRIMARY	U110 Core Data	Na	9.04E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.49E+04	ug/g	S	PRIMARY RESULT	TCD	Na	9.02E+07	
BX112	Na				4.90E+05	g-moles	S		TRAC	Na	9.01E+07	
c112	Sodium	3/1/92	B08DN6	1.3	6.89E+04	ug/g	S	PRIMARY RESULT	TCD	Na	8.96E+07	
t107	Sodium	3/1/93	B08V43	1.15	7.69E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.84E+07	
U110	Sodium	12/1/89	Core 13 Segment 3	1.14	7.74E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.82E+07	
U110	Sodium	12/1/89	Core Composite 15	1.29	6.82E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.80E+07	
t107	Sodium	3/1/93	B08V43	1.15	7.56E+04	ug/g	S	PRIMARY RESULT	TCD	Na	8.69E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.32E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.68E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.32E+04	ug/g	S	PRIMARY RESULT	TCD	Na	8.68E+07	
U110	Sodium	12/1/89	Core 15 Segment 2	1.27	6.83E+04	ug/g	I	PRIMARY	U110 Core Data	Na	8.68E+07	
U110	Na	11/15/89	89-047		53905	ugm/gm	G	Sludge	Braun	Na	8.62E+07	
BX107	Na	10/20/92	J924-AV		53291.039	ugm/gm	G	Sludge/Composite	Braun	Na	8.53E+07	
C107	Na	9/26/77	510 Top		3.70E+00	M	S		RAW	Na	8.51E+07	
C107	Na	9/26/77	510 Top		3.70E+00	M	S		RAW	Na	8.51E+07	
C107	Na	9/26/77	T-510-32		3.7	moles/l	G	Sludge	Braun	Na	8.51E+07	
C107	Na	9/26/77	T-510-33		3.7	moles/l	G	Sludge	Braun	Na	8.51E+07	
t107	Sodium	3/1/93	B08V44	1.1	7.69E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.46E+07	
U110	Sodium	12/1/89	Core 12 Segment 4	1.48	5.67E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.39E+07	
U110	Sodium	12/1/89	Core 5 Segment 3	1.04	8.06E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.38E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.17E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.38E+07	
b111	Sodium	10/1/91	B08XB9	1	8.36E+04	ug/g	S	PRIMARY RESULT	TCD	Na	8.36E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.14E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.32E+07	
SX102	Na	11/26/74		1.9	3.61E+00	M	G	Sludge (Bottom layer)	RAW	Na	8.30E+07	
SX102	Na	11/26/74	RAT-SX102-2B	1.9	3.61	moles/l	G	Sludge	Braun	Na	8.30E+07	
t104	Sodium	8/26/92	B08S09	1.13	7.29E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	8.24E+07	
U110	Sodium	12/1/89	Core Composite 13	1.3	6.31E+04	ug/g	I	PRIMARY	U110 Core Data	Na	8.20E+07	
t105	Sodium	5/28/93	B08WT4	2.01	4.08E+04	ug/g	S	PRIMARY RESULT	TCD	Na	8.20E+07	
b111	Sodium	10/1/91	B08XB9	1	8.20E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.20E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Sodium	3/1/93	B08TZ2	1.29	6.32E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	8.15E+07	
U110	Sodium	12/1/89	Core Composite 13	1.3	6.24E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.11E+07	
U110	Sodium	12/1/89	Core Composite 7	1.675	4.81E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	8.06E+07	
C102	Na	2/1/91			5.03E+04	mg/kg	S	KOH Fusion	RAW	Na	8.05E+07	
C112	Na +				3.48E+00	moles/L	S		HTCE Inv.	Na	7.99E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	6.18E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.97E+07	
b111	Sodium	10/1/91	B08XB9	1	7.95E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.95E+07	
T105	Na	10/26/93	RAT-T105-2B	2.01	39500	ugm/gm	G	Sludge/Composite	Braun	Na	7.94E+07	
C102	Na	6/17/87			4.94E+04	uG/G	S	Acid/PARR	RAW	Na	7.90E+07	
C102	Na	12/1/86	RAT-C102-2		49400	ugm/gm	I	Composite	Braun	Na	7.90E+07	
b111	Sodium	10/1/91	B08XB9	1	7.90E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	7.90E+07	
t105	Sodium	5/28/93	B08WT4	2.01	3.92E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	7.88E+07	
U110	Sodium	12/1/89	Core 5 Segment 3	1.04	7.57E+04	ug/g	I	PRIMARY	U110 Core Data	Na	7.87E+07	
U110	Sodium	12/1/89	Core 7 Segment 2	1.46	5.39E+04	ug/g	I	PRIMARY	U110 Core Data	Na	7.87E+07	
t104	Sodium	8/26/92	B08S09	1.13	6.96E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	7.86E+07	
t104	Sodium	8/26/92	B08S09	1.13	6.93E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	7.83E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	6.07E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	7.83E+07	
C105	Na	2/1/77	RAT-C105-3	1.47	3.4	moles/l	G	Sludge	Braun	Na	7.82E+07	
t105	Sodium	5/28/93	B08WT4	2.01	3.89E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.82E+07	
S107	Na	11/16/73	T-476	1.157	3.39E+00	M	S		RAW	Na	7.80E+07	
c109	Sodium	9/1/92	B08T17	1.2	6.48E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	7.78E+07	
t104	Sodium	8/26/92	B08S09	1.13	6.88E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	7.77E+07	
S107	Na	11/6/73	T-178	1.14	3.36	moles/l	I	Composite	Braun	Na	7.73E+07	
U110	Sodium	12/1/89	Core 15 Segment 2	1.27	6.07E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	7.71E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	5.97E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.70E+07	
TY104	Na				5.00E+03	g-moles	S		TRAC	Na	7.59E+07	
c109	Sodium	9/1/92	B08T15	1.2	6.32E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.58E+07	
c109	Sodium	9/1/92	B08T15	1.2	6.29E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	7.55E+07	
t105	Sodium	5/28/93	B08WT4	2.01	3.75E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.54E+07	
t107	Sodium	3/1/93	B08TZ2	1.29	5.83E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.52E+07	
C106	Na	7/1/77	5		4.62E+04	mg/kg	S		RAW	Na	7.39E+07	
TX118	Na	10/16/81	RAT-TX118-6		4.58	wt. %	S	Supernate/Solids	Braun	Na	7.33E+07	
c109	Sodium	9/1/92	B08T17	1.2	6.09E+04	ug/g	S	PRIMARY RESULT	TCD	Na	7.30E+07	
s104	Sodium	8/1/92	B08TL3	1.6	4.55E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	7.28E+07	
s104	Sodium	8/1/92	B08TL3		4.55E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	7.28E+07	
U110	Na	12/3/89	89-078		45184	ugm/gm	G	Sludge	Braun	Na	7.23E+07	
A106	Na	10/5/77	JS-31	1.51	3.1	moles/l	G	Sludge	Braun	Na	7.13E+07	
s104	Sodium	8/1/92	B08TL4	1.6	4.43E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	7.09E+07	
s104	Sodium	8/1/92	B08TL4		4.43E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	7.09E+07	
AX104	Na	9/15/77	48-JS, 22&24 AL#230	4.8	3.02E+00	M	G	Sludge	RAW	Na	6.95E+07	
U110	Na	11/29/89	89-072		43084	ugm/gm	G	Sludge	Braun	Na	6.89E+07	
C102	Na	2/1/91			4.26E+04	mg/kg	S	KOH Fusion	RAW	Na	6.82E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AX104	Na	9/15/77	148JS#25 AL#2385		2.96E+00	M	S		RAW	Na	6.81E+07	
AX104	Na	9/15/77	JS-25		2.96	moles/l	G	Sludge	Braun	Na	6.81E+07	
AX104	Na	9/15/77			6.80E+01	g/L	G	Sludge	Wastran	Na	6.80E+07	
TY103	Na(+)	3/15/65		1.182	6.80E+01	g/l	K	saltcake	RAW	Na	6.80E+07	
SX113	Na +				2.93E+00	moles/L	S		HTCE Inv.	Na	6.74E+07	
t107	Sodium	3/1/93	B08T22	1.29	5.21E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	6.72E+07	
C102	Na	7/10/86	E1XCOOXX	1.351	49400	ugm/gm	G	Sludge/Composite	Braun	Na	6.67E+07	
U108	Na TOT	8/14/75			6.67E+01	g/L	K	Saltcake	Wastran	Na	6.67E+07	
BX105	Na	2/11/76	T-2325	1.369	2.83	moles/l	G	Sludge	Braun	Na	6.51E+07	
U110	Sodium	12/1/89	Core 7 Segment 2	1.46	4.43E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	6.47E+07	
t105	Sodium	5/28/93	B08WT4	2.01	3.18E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	6.39E+07	
U110	Sodium	12/1/89	Core 12 Segment 4	1.48	4.31E+04	ug/g	I	PRIMARY	U110 Core Data	Na	6.38E+07	
T111	Na	8/7/92	J-466		39800	ugm/gm	G	Sludge/Composite	Braun	Na	6.37E+07	
c109	Sodium	9/1/92	B08T15	1.2	5.24E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	6.29E+07	
U110	Sodium	12/1/89	Core 14 Segment 2	1.39	4.52E+04	ug/g	I	PRIMARY	U110 Core Data	Na	6.28E+07	
U110	Sodium	12/1/89	Core 14 Segment 2	1.39	4.48E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	6.22E+07	
b202	Sodium	6/7/91	B08SP8	0.98	6.35E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	6.22E+07	
C107	Na	10/4/77	510 Middle		2.70E+00	M	S		RAW	Na	6.21E+07	
C107	Na	9/26/77	T-510-23		2.7	moles/l	G	Sludge	Braun	Na	6.21E+07	
T102	Na	3/1/93	93-087755	1.79	34238	ugm/gm	G	Sludge/Composite	Braun	Na	6.13E+07	
B202	Na				1.60E+04	g-moles	S		TRAC	Na	6.07E+07	
A106	Na	10/5/77	JS-30	1.51	2.6	moles/l	G	Sludge	Braun	Na	5.98E+07	
c109	Sodium	9/1/92	B08T15	1.2	4.97E+04	ug/g	S	PRIMARY RESULT	TCD	Na	5.96E+07	
S112	NaOH	11/15/74	RAT-S112-1	1.304	4.4	wt. %	A	Salts	Braun	Na	5.74E+07	
C106	Na	9/1/80	4		3.58E+04	mg/kg	S		RAW	Na	5.73E+07	
T104	Na	9/18/80			5.65E+01	g/L	G	Sludge	Wastran	Na	5.65E+07	
T104	Na	9/18/80	RAT-T104-2	1.307	4.32	wt. %	G	Sludge	Braun	Na	5.65E+07	
b202	Sodium	6/7/91	B08SP5	0.87	6.48E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	5.64E+07	
t105	Sodium	5/28/93	B08WT2	0.89	6.28E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	5.59E+07	
c112	Sodium	3/1/92	B08DN6	1.3	4.26E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	5.54E+07	
C102	Na	2/1/91	2		3.45E+04	mg/kg	S	Total	RAW	Na	5.52E+07	
C102	Na	2/1/91	2		3.45E+04	mg/kg	S	water leach	RAW	Na	5.52E+07	
C103	Na +				2.38E+00	moles/L	S		HTCE Inv.	Na	5.48E+07	
C105	Na +				2.38E+00	moles/L	S		HTCE Inv.	Na	5.47E+07	
t105	Sodium	5/28/93	B08WT2	0.89	6.14E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	5.46E+07	
C102	Na	2/1/91	1		3.41E+04	mg/kg	S	Total	RAW	Na	5.45E+07	
C102	Na	2/1/91	1		3.41E+04	mg/kg	S	water leach	RAW	Na	5.45E+07	
T111	Na	8/7/92	J-470		33900	ugm/gm	G	Sludge/Composite	Braun	Na	5.42E+07	
t105	Sodium	5/28/93	B08WT2	0.89	6.08E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	5.41E+07	
c109	Sodium	9/1/92	B08T17	1.2	4.51E+04	ug/g	S	PRIMARY RESULT	TCD	Na	5.41E+07	
t105	Sodium	5/28/93	B08WT2	0.89	6.03E+04	ug/g	S	PRIMARY RESULT	TCD	Na	5.37E+07	
TY106	Na	9/18/80	RAT-TY106-2	1.86	2.866	wt. %	G	Sludge	Braun	Na	5.33E+07	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
s104	Sodium	8/1/92	B08TL4	1.6	3.33E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	5.33E+07	
s104	Sodium	8/1/92	B08TL4		3.33E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	5.33E+07	
C104	Na +				2.31E+00	moles/L	S		HTCE Inv.	Na	5.32E+07	
BX101	Na				1.56E+05	g-moles	S		TRAC	Na	5.23E+07	
SX106	Na TOT	11/1/79	T-4379 T-4382 T-4381	1.11	1.83E+00	M	I	Composite	RAW	Na	5.19E+07	
b202	Sodium	6/7/91	B08SP6	0.98	5.28E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	5.17E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.82E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	5.16E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.82E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	5.16E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.79E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	5.12E+07	
SX107	Na +				2.21E+00	moles/L	S		HTCE Inv.	Na	5.08E+07	
S104	Na +				2.19E+00	moles/L	S		HTCE Inv.	Na	5.05E+07	
SX108	Na +				2.18E+00	moles/L	S		HTCE Inv.	Na	5.02E+07	
S110	Na				5.70E+05	g-moles	S		TRAC	Na	5.01E+07	
S105	NaOH	3/1/74	RAT-S105-2	1.38	0.036	gm/gm	S	Solids	Braun	Na	4.97E+07	
B110	Na				4.82E+06	g-moles	S		TRAC	Na	4.96E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.65E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.93E+07	
c109	Sodium	9/1/92	B08T17	1.2	4.10E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.92E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.63E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	4.90E+07	
b202	Sodium	6/7/91	B08SP5	0.87	5.63E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.90E+07	
b202	Sodium	6/7/91	B08SM4	1.35	3.51E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.74E+07	
b201	Sodium	8/1/91	B08F17	1.2	3.95E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.73E+07	
b202	Sodium	6/7/91	B08SP6	0.98	4.82E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.73E+07	
b202	Sodium	6/7/91	B08SP6	0.98	4.82E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.72E+07	
b201	Sodium	8/1/91	B08RP3	1.2	3.93E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.72E+07	
TY106	Na +	9/18/80		1.86	2.53E+00	wt %	S		RAW	Na	4.71E+07	
b201	Sodium	8/1/91	B08RP3	1.2	3.90E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.68E+07	
t102	Sodium	3/1/93	B0B732	1.32	3.47E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.58E+07	
t111	Sodium	11/1/91	B08SQ9	1.13	4.04E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.57E+07	
C103	Na	5/8/87	F1XCXXXX	1.13	4.03E+04	ug/g	I	Composite	RAW	Na	4.55E+07	
C103	Na	5/7/86	F1XCOOXX	1.13	40300	ugm/gm	G	Sludge/Composite	Braun	Na	4.55E+07	
b201	Sodium	8/1/91	B08RP3	1.2	3.79E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.55E+07	
t111	Sodium	11/1/91	B08SQ9	1.13	4.01E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.53E+07	
T111	Na	8/7/92	J-414	1.13	40100	ugm/gm	G	Sludge	Braun	Na	4.53E+07	
t102	Sodium	3/1/93	B0B732	1.32	3.42E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.52E+07	
C102	Na +				1.96E+00	moles/L	S		HTCE Inv.	Na	4.50E+07	
b201	Sodium	8/1/91	B08RP3	1.2	3.74E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.49E+07	
s104	Sodium	8/1/92	B08TL3	1.6	2.80E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.48E+07	
s104	Sodium	8/1/92	B08TL3		2.80E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.48E+07	
t111	Sodium	11/1/91	B08SX5	1.06	4.18E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.43E+07	
SX115	Na	3/10/75		0.55	1.92E+00	mol/l	G	Sludge	RAW	Na	4.42E+07	
SX115	Na	3/10/75	RAT-SX115-1	1.55	1.92	moles/l	G	Sludge	Braun	Na	4.42E+07	
SX115	Na	3/10/75			4.41E+01	g/L	G	Sludge	Wastren	Na	4.41E+07	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TY104	Na +	9/24/65		1.045	4.40E+01	g/l	G	sludge	RAW	Na	4.40E+07	
t102	Sodium	3/1/93	BOB732	1.32	3.32E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.39E+07	
b202	Sodium	6/7/91	BO8SP5	0.87	5.04E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.38E+07	
B203	Na +				1.91E+00	moles/L	S		HTCE Inv.	Na	4.38E+07	
B204	Na +				1.91E+00	moles/L	S		HTCE Inv.	Na	4.38E+07	
B202	Na +				1.91E+00	moles/L	S		HTCE Inv.	Na	4.38E+07	
B201	Na +				1.91E+00	moles/L	S		HTCE Inv.	Na	4.38E+07	
b202	Sodium	6/7/91	BO8SP8	0.98	4.47E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.38E+07	
b201	Sodium	8/1/91	BO8F17	1.2	3.60E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.32E+07	
t111	Sodium	11/1/91	BO8SX5	1.06	4.07E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.31E+07	
T111	Na	8/7/92	J-410	1.06	40655	ugm/gm	G	Sludge	Braun	Na	4.31E+07	
C102	Na	2/1/91	1		2.67E+04	mg/kg	S	water leach	RAW	Na	4.27E+07	
t111	Sodium	11/1/91	BO8SX5	1.06	4.03E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.27E+07	
t111	Sodium	11/1/91	BO8SX5	1.06	4.02E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.26E+07	
b201	Sodium	8/1/91	BO8F21	1.3	3.26E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.24E+07	
C107	Na	10/4/77	510 Middle		1.80E+00	M	S		RAW	Na	4.14E+07	
b202	Sodium	6/7/91	BO8SP5	0.87	4.75E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	4.13E+07	
b201	Sodium	8/1/91	BO8F21	1.3	3.17E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	4.12E+07	
b202	Sodium	6/7/91	BO8SP6	0.98	4.18E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.10E+07	
b202	Sodium	6/7/91	BO8SP5	0.87	4.70E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.09E+07	
b201	Sodium	8/1/91	BO8F17	1.2	3.41E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.09E+07	
b202	Sodium	6/7/91	BO8SP5	0.87	4.70E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	4.09E+07	
b201	Sodium	8/1/91	BO8F21	1.3	3.09E+04	ug/g	S	PRIMARY RESULT	TCD	Na	4.01E+07	
t102	Sodium	3/1/93	BOB732	1.32	3.02E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.98E+07	
t107	Sodium	3/1/93	BO8VD8	1.42	2.80E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.98E+07	
t111	Sodium	11/1/91	BO8SV7	1.09	3.64E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.97E+07	
b201	Sodium	8/1/91	BO8F17	1.2	3.30E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.96E+07	
T111	Na	8/7/92	J-408	1.09	36118.1	ugm/gm	G	Sludge	Braun	Na	3.94E+07	
t111	Sodium	11/1/91	BO8SV7	1.09	3.61E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.93E+07	
t111	Sodium	11/1/91	BO8SV7	1.09	3.61E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.93E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.96E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.90E+07	
t111	Sodium	11/1/91	BO8SV7	1.09	3.55E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.87E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.91E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.85E+07	
B201	Na	12/4/78			3.84E+01	g/L	G	Sludge	Wastren	Na	3.84E+07	
C102	Na	2/1/91	2		2.40E+04	mg/kg	S	water leach	RAW	Na	3.84E+07	
B201	Na	12/4/78	1898	1.37	2.8	wt. %	G	Sludge	Braun	Na	3.84E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.90E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.83E+07	
b202	Sodium	6/7/91	BOBC06	0.99	3.82E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.78E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.86E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.77E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.86E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.77E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.86E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.77E+07	
t102	Sodium	3/1/93	BOB732	1.32	2.85E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.77E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids (Sketch ES-VAL-CC28)
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
t107	Sodium	3/1/93	B08VD8	1.42	2.65E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.76E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.68E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.76E+07	
b202	Sodium	6/7/91	B0BC06	0.99	3.75E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.71E+07	
t102	Sodium	3/1/93	B0B732	1.32	2.81E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.71E+07	
B104	Na				1.88E+06	g-moles	S		TRAC	Na	3.70E+07	
b202	Sodium	6/7/91	B0BC06	0.99	3.74E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.70E+07	
t102	Sodium	3/1/93	B0B732	1.32	2.79E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.69E+07	
t102	Sodium	3/1/93	B0B732	1.32	2.77E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.66E+07	
t111	Sodium	11/1/91	B08ST9	1.11	3.29E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.65E+07	
t111	Sodium	11/1/91	B08ST9	1.11	3.29E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.65E+07	
b202	Sodium	6/7/91	B0BC06	0.99	3.68E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.64E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.56E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.63E+07	
b202	Sodium	6/7/91	B0BC06	0.99	3.63E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	3.60E+07	
t102	Sodium	3/1/93	B0B732	1.32	2.72E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.59E+07	
b202	Sodium	6/7/91	B0BC06	0.99	3.62E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.58E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.50E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.57E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.49E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	3.56E+07	
T111	Na	8/7/92	J-404	1.11	31805.1	ugm/gm	G	Sludge	Braun	Na	3.53E+07	
t111	Sodium	11/1/91	B08ST9	1.11	3.18E+04	ug/g	S	PRIMARY RESULT	TCD	Na	3.53E+07	
b202	Sodium	6/7/91	B08SK0	0.93	3.79E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.52E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.41E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.48E+07	
S106	Na TOT	8/21/74	Na TOT	1.27	1.46E+00	M	S	yellow crystals	RAW	Na	3.47E+07	
t111	Sodium	11/1/91	B08ST9	1.11	3.10E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.44E+07	
b202	Sodium	6/7/91	B08SM2	1.02	3.35E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.42E+07	
b202	Sodium	6/7/91	B08SK0	0.93	3.66E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	3.40E+07	
U110	Na	12/3/89	89-079		21228	ugm/gm	G	Sludge	Braun	Na	3.40E+07	
b201	Sodium	8/1/91	B08F21	1.3	2.58E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.35E+07	
b202	Sodium	6/7/91	B08SK0	0.93	3.60E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.35E+07	
S102	Na TOT	4/29/75	RAT-S102-2	1.52			G	Sludge	Braun	Na	3.34E+07	
t102	Sodium	3/1/93	B0B732	1.32	2.53E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	3.34E+07	
b202	Sodium	6/7/91	B08SP6	0.98	3.31E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.24E+07	
b202	Sodium	6/7/91	B08SP8	0.98	3.31E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.24E+07	
C204	Na	12/4/78	T-1914	1.07	3	wt.%	G	Sludge	Braun	Na	3.21E+07	
T204	Na	12/4/78	1914	1.07	3	wt.%	G	Sludge	Braun	Na	3.21E+07	
C201	Na	12/4/78	T-3421	1.16	2.7	wt.%	G	Sludge	Braun	Na	3.13E+07	
b202	Sodium	6/7/91	B08SP8	0.98	3.17E+04	mg/kg	S	DUPLICATE RESULT	TCD	Na	3.11E+07	
b202	Sodium	6/7/91	B08SP6	0.98	3.17E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.11E+07	
TX118	Na	10/16/81			1.94E+00	wt%	S		RAW	Na	3.10E+07	
b202	Sodium	6/7/91	B08SK0	0.93	3.33E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.10E+07	
b202	Sodium	6/7/91	B08SP8	0.98	3.14E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.08E+07	
b202	Sodium	6/7/91	B08SP8	0.98	3.14E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.08E+07	
BX108	Na				2.36E+04	g-moles	S		TRAC	Na	3.05E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
b202	Sodium	6/7/91	B08SK0	0.93	3.23E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.01E+07	
b202	Sodium	6/7/91	B08SK0	0.93	3.23E+04	mg/kg	S	PRIMARY RESULT	TCD	Na	3.00E+07	
U110	Sodium	12/1/89	Core 14 Segment 3	1.4	2.12E+04	ug/g	I	PRIMARY	U110 Core Data	Na	2.97E+07	
B203	Na	12/4/78	2782	1.09	2.7	wt.%	G	Sludge	Braun	Na	2.94E+07	
S111	Na TOT	4/23/75			2.84E+01	g/L	K	Saltcake	Wastren	Na	2.84E+07	
U110	Sodium	12/1/89	Core 14 Segment 3	1.4	2.02E+04	ug/g	I	DUPLICATE	U110 Core Data	Na	2.83E+07	
S105	Na TOT	8/21/74	Na TOT	1.26	1.20E+00	M	A	Salt	RAW	Na	2.82E+07	
U204	Na +				1.16E+00	moles/L	S		HTCE Inv.	Na	2.67E+07	
U203	Na +				1.16E+00	moles/L	S		HTCE Inv.	Na	2.67E+07	
U202	Na +				1.16E+00	moles/L	S		HTCE Inv.	Na	2.67E+07	
U201	Na +				1.16E+00	moles/L	S		HTCE Inv.	Na	2.67E+07	
BX107	Na				3.00E+04	g-moles	S		TRAC	Na	2.60E+07	
C106	Na	7/22/88			1.61E+01	g/kg	G	Sludge	RAW	Na	2.58E+07	
C106	Na	8/1/88	2		1.61E+04	mg/kg	S		RAW	Na	2.58E+07	
S110	Na TOT	4/23/75	RAT-S110-3	1.9			A	Salts	Braun	Na	2.54E+07	
S109	NaOH	8/19/74	RAT-S109-3	1.1	2.3	wt.%	A	Salts	Braun	Na	2.53E+07	
T111	Na	8/7/92	J-402	0.93	26247.2	ugm/gm	G	Sludge	Braun	Na	2.44E+07	
t111	Sodium	11/1/91	B08ST7	0.93	2.62E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	2.44E+07	
t111	Sodium	11/1/91	B08ST7	0.93	2.62E+04	ug/g	S	PRIMARY RESULT	TCD	Na	2.44E+07	
S111	Na TOT	8/21/74	Na TOT	1.704	9.56E-01	M	A	Salts	RAW	Na	2.39E+07	
t111	Sodium	11/1/91	B08ST7	0.93	2.56E+04	ug/g	S	PRIMARY RESULT	TCD	Na	2.38E+07	
B202	Na	12/4/78	2509	1.25	1.9	wt.%	G	Sludge	Braun	Na	2.38E+07	
C102	Na	6/17/87			1.48E+04	uG/G	S	PARR	RAW	Na	2.37E+07	
C102	Na	1/21/88	E1XCOOXM		1.48E+04	ug/g	S	PARR	RAW	Na	2.37E+07	
C102	Na	7/10/86	E1XCOOXM		14800	ugm/gm	G	Sludge/Composite	Braun	Na	2.37E+07	
t111	Sodium	11/1/91	B08ST7	0.93	2.53E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	2.35E+07	
TY104	Na	8/6/85	241SXXXX	1.77	1.19E+04	ug/g	I	core composite	RAW	Na	2.11E+07	
T111	Na +	9/24/65		1.032	2.10E+01	g/l	G	sludge	RAW	Na	2.10E+07	
t111	Sodium	11/1/91	B08ST5	0.88	2.30E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	2.02E+07	
TY103	Na				7.00E+04	g-moles	S		TRAC	Na	2.02E+07	
t111	Sodium	11/1/91	B08ST5	0.88	2.29E+04	ug/g	S	PRIMARY RESULT	TCD	Na	2.02E+07	
SX102	NaOH	3/18/76	RAT-SX102-3	1.829	1.1	wt.%	A	Salts	Braun	Na	2.01E+07	
t111	Sodium	11/1/91	B08ST5	0.88	2.28E+04	ug/g	S	DUPLICATE RESULT	TCD	Na	2.01E+07	
C112	Na				3.30E+04	g-moles	S		TRAC	Na	1.91E+07	
T112	Na +	9/24/65		1.03	1.90E+01	g/l	G	sludge	RAW	Na	1.90E+07	
t111	Sodium	11/1/91	B08ST5	0.88	2.11E+04	ug/g	S	PRIMARY RESULT	TCD	Na	1.86E+07	
T111	Na	8/7/92	J-398	0.88	21078.9	ugm/gm	G	Sludge	Braun	Na	1.85E+07	
TY104	Na	8/6/85	261SXXXX	1.48	1.12E+04	ug/g	I	core composite	RAW	Na	1.66E+07	
S111	NaOH	5/29/74	RAT-S111-2	1.348	1.22	wt.%	G	Sludge	Braun	Na	1.64E+07	
B204	Na	12/4/78			1.60E+01	g/L	G	Sludge	Wastren	Na	1.60E+07	
B204	Na	12/4/78	1974	1.14	1.4	wt.%	G	Sludge	Braun	Na	1.60E+07	
C109	Na				9.00E+03	g-moles	S		TRAC	Na	1.52E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	Information ug/L	ID
B103	Na				6.00E+03	g-moles	S		TRAC	Na	1.46E+07	
SX103	NaOH	3/18/76	RAT-SX103-2	1.601	0.9	wt. %	A	Salts	Braun	Na	1.44E+07	
TY104	Na	9/1/85	232SXXXX	1.85	1.32E+04	mg/L	I	core composite	RAW	Na	1.32E+07	
U204	Na	12/4/78			1.31E+01	g/L	G	Sludge	Wastren	Na	1.31E+07	
U204	Na	12/4/78	RAT-U204-1	1.31	1	wt. %	S	Solids	Braun	Na	1.31E+07	
S106	NaOH	8/23/74	RAT-S106-4	1.27	1	wt. %	A	Salts	Braun	Na	1.27E+07	
TY105	Na	9/1/85	61XCXXXX	1.53	1.25E+04	mg/L	I	core composite	RAW	Na	1.25E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.24	1	wt. %	G	Sludge	Braun	Na	1.24E+07	
SX101	NaOH	11/13/74	RAT-SX101-3	1.65	0.7	wt. %	A	Salts	Braun	Na	1.16E+07	
U110	Sodium	12/1/89	Core Composite 8		7.15E+03	ug/g	I	DUPLICATE	U110 Core Data	Na	1.14E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.05	1	wt. %	G	Sludge	Braun	Na	1.05E+07	
T112	NaOH Free	9/24/65		1.03	4.50E-01	N	G	sludge	RAW	Na	1.04E+07	
U110	Sodium	12/1/89	Core 7 Segment 1	1.78	4.86E+03	ug/g	I	DUPLICATE	U110 Core Data	Na	8.66E+06	
T107	Na				7.64E+03	g-moles	S		TRAC	Na	7.73E+06	
TY104	NaOH Free	9/24/65		1.045	3.23E-01	N	G	sludge	RAW	Na	7.43E+06	
S105	NaOH	8/23/74	RAT-S105-6	1.261	0.5	wt. %	S	Solids	Braun	Na	6.31E+06	
C111	Na				7.00E+03	g-moles	S		TRAC	Na	5.66E+06	
TY103	NaOH Free	3/15/65		1.182	2.38E-01	N	K	saltcake	RAW	Na	5.47E+06	
U111	NaOH	8/14/75	RAT-U111-1	0.908	0.6	wt. %	G	Sludge	Braun	Na	5.45E+06	
C107	Na				3.00E+04	g-moles	S		TRAC	Na	5.06E+06	
U110	Sodium	12/1/89	Core Composite 8		2.94E+03	ug/g	I	PRIMARY	U110 Core Data	Na	4.70E+06	
U110	Na	11/17/89	89-050		2940	ugm/gm	G	Sludge/Composite	Braun	Na	4.70E+06	
C102	Na	1/21/88	E1XCOOXX		2.72E+03	PPM	S	Raw Acid	RAW	Na	4.35E+06	
T111	Na	9/24/74	T-4893	1.02	1.88E-01	M	S	black	RAW	Na	4.32E+06	
T107	NaOH Free	9/24/65		1.204	1.64E-01	N	G	sludge	RAW	Na	3.77E+06	
TY103	Na(+)	9/29/80		1.5	2.22E-01	wt %	K	saltcake	RAW	Na	3.33E+06	
TY101	Na(+)	9/18/80		1.707	1.83E-01	wt %	G	sludge	RAW	Na	3.12E+06	
S110	NaOH	4/23/75	RAT-S110-3	1.9	0.115	moles/l	A	Salts	Braun	Na	2.65E+06	
S111	Na	9/18/80			2.00E+00	g/L	G	Sludge	Wastren	Na	2.00E+06	
U110	Sodium	12/1/89	Core Composite 8		1.11E+03	ug/g	I	PRIMARY	U110 Core Data	Na	1.78E+06	
U110	Sodium	12/1/89	Core 7 Segment 1	1.78	9.47E+02	ug/g	I	PRIMARY	U110 Core Data	Na	1.69E+06	
U110	Na	11/15/89	89-046		947	ugm/gm	G	Sludge	Braun	Na	1.52E+06	
C102	Na	2/1/91	1		1.34E+03	ug/mL	S	water leach	RAW	Na	1.34E+06	
C102	Na	2/1/91	2		1.21E+03	ug/mL	S	water leach	RAW	Na	1.21E+06	
Minimum Plot Limit: 1.00E+06 ug/L												
T110	Na				7.62E+04	g-moles	S		TRAC	Na	8.71E+05	
C102	Na	1/21/88	E1XCOOXX		2.76E+02	PPM	S	Raw PARR	RAW	Na	4.42E+05	
TY102	Na(+)	10/1/80		1.51	1.80E-02	wt %	K	saltcake	RAW	Na	2.72E+05	
U110	Sodium	12/1/89	Core 14 Segment 1	1.5	1.61E+02	ug/g	I	PRIMARY	U110 Core Data	Na	2.42E+05	
U110	Sodium	12/1/89	Core 14 Segment 1	1.5	1.61E+02	ug/g	I	DUPLICATE	U110 Core Data	Na	2.42E+05	
U110	Sodium	12/1/89	Core Composite 8		1.27E+02	ug/g	I	DUPLICATE	U110 Core Data	Na	2.03E+05	
C102	Na	2/1/91	1		1.75E+02	ug/mL	S	5X Dil	RAW	Na	1.75E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Single-Shell Tank Solids [Sketch ES-VAL-CC28]
 ASA Value: 5.99E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
C102	Na	2/1/91	1		1.70E+02	ug/mL	S	25x Dil	RAW	Na	1.70E+05	
TY103	Na(+)	10/1/79		1.5	1.11E-02	wt %	K	saltcake	RAW	Na	1.67E+05	
C102	Na	2/1/91	2		1.50E+02	ug/mL	S	25x Dil	RAW	Na	1.50E+05	
C102	Na	2/1/91	2		1.49E+02	ug/mL	S	5X Dil	RAW	Na	1.49E+05	
U108	NaOH	8/14/75	RAT-U108-1	0.898	0.01	wt. %	G	Sludge	Braun	Na	8.98E+04	
T102	Na	5/4/93	Core 55		3.42E+01	ug/g	I	core segment	RAW	Na	5.48E+04	
A106	Na				1.00E-01	g-moles	S		TRAC	Na	2.76E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S105	NaOH	3/1/74	RAT-S105-1	1.462	6.47	moles/l	L	Liquor	Braun	NaOH	2.59E+08	11
S105	NaOH	3/13/74		1.462	6.46E+00	M	L	Liquids	RAW	NaOH	2.58E+08	11
BY112	OH-	4/4/72			1.08E+02	g/L	P	Supernate	Wastren	NaOH	2.54E+08	11
S112	NaOH	7/8/74		1.501	5.72E+00	M	P	Supernatant	RAW	NaOH	2.29E+08	11
S109	OH	9/16/74	T-4544	1.7607	5.57E+00	M	L		RAW	NaOH	2.23E+08	11
S109	OH	9/16/74	T-4544	1.7607	5.57	moles/l	P	Supernate	Braun	NaOH	2.23E+08	11
ASA Value: 2.13E+08 ug/L												
S106	NaOH	9/21/71		1.429	5.33E+00	M	L	Liquor	RAW	NaOH	2.13E+08	*
S106	NaOH	8/21/74		1.429	5.33E+00	M	P	Supernate	RAW	NaOH	2.13E+08	*
SX101	OH-	2/7/79	E-00162		5.20E+00	M	L		RAW	NaOH	2.08E+08	
S106	OH	12/16/74	T-8035	1.5414	5.2	moles/l	P	Supernate	Braun	NaOH	2.08E+08	
SX101	OH	2/7/79	E-00162		5.2	moles/l	P	Supernate	Braun	NaOH	2.08E+08	
S108	NaOH	7/8/74		1.513	5.08E+00	M	P	Supernatant	RAW	NaOH	2.03E+08	
S109	OH	11/19/74	T-8121	1.6717	5.07E+00	M	L		RAW	NaOH	2.03E+08	
S109	OH	11/19/74	T-8121	1.6717	5.07	moles/l	P	Supernate	Braun	NaOH	2.03E+08	
TX106	OH	12/8/76	T-6312	1.437	4.99	M	L	green	RAW	NaOH	2.00E+08	
TX106	OH	8/19/76	T-6312	1.437	4.99	moles/l	P	Supernate	Braun	NaOH	2.00E+08	
C110	OH-	6/3/91			8.32E+01	g/L	P	Supernate	Wastren	NaOH	1.96E+08	
S112	OH	12/9/74	T-8122	1.5909	4.54	moles/l	P	Supernate	Braun	NaOH	1.82E+08	
S102	OH	5/13/74	T-3601	1.2839	4.52	moles/l	P	Supernate	Braun	NaOH	1.81E+08	
U111	OH	5/25/76	9762	1.25	4.5	moles/l	P	Supernate	Braun	NaOH	1.80E+08	
Preliminary ASA Value: 1.8E+08 ug/L												
S106	NaOH	6/4/75			1.78E+02	g/L	P	Supernate	Wastren	NaOH	1.78E+08	
S106	NaOH	6/4/75		1.45	4.44E+00	M	P	Supernate	RAW	NaOH	1.78E+08	
S106	NaOH	6/4/75	RAT-S106-3	1.45	4.44	moles/l	P	Supernate	Braun	NaOH	1.78E+08	
S102	OH	6/20/75	T-5514	1.5202	4.29E+00	M	L	Solids undetermine	RAW	NaOH	1.72E+08	
S102	OH	6/20/75	T-5514	1.5202	4.29	moles/l	P	Supernate	Braun	NaOH	1.72E+08	
TX118	NaOH	5/20/75		1.375	4.28E+00	M	L		RAW	NaOH	1.71E+08	
A101	NaOH	10/13/80		1.306	4.20E+00	M	P	Supernatant	RAW	NaOH	1.68E+08	
A101	OH	10/13/80	RAT-A101-1	1.306	4.2	moles/l	P	Supernate	Braun	NaOH	1.68E+08	
S102	NaOH	3/28/80			1.62E+02	g/L	P	Supernate	Wastren	NaOH	1.62E+08	
S102	NaOH	3/28/80	T-8101	1.4018	4.04E+00	M	L	Liquor	RAW	NaOH	1.62E+08	
S102	NaOH	3/28/80	T-8101	1.4018	4.04	moles/l	L	Liquor	Braun	NaOH	1.62E+08	
SX104	OH	5/14/88		1.414	4.02E+00	M	L	Top	RAW	NaOH	1.61E+08	
SX104	OH	5/14/88		1.414	4.02E+00	M	L	Top Layer	RAW	NaOH	1.61E+08	
S107	OH	10/16/78	4251	1.525	4.02	moles/l	P	Supernate	Braun	NaOH	1.61E+08	
BY106	OH	4/13/72	7395	1.415	3.95E+00	M	L	surface	RAW	NaOH	1.58E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
BY106	OH	4/13/72	7395	1.415	3.95	moles/l	P	Supernate	Braun	NaOH	1.58E+08			
TX114	OH	2/3/81	AT-TX114-	1.43	3.93	moles/l	P	Supernate	Braun	NaOH	1.57E+08			
TX114	OH-	2/3/81			6.68E+01	g/L	P	Supernate	Wastren	NaOH	1.57E+08			
A101	OH	9/22/80	4493	1.449	3.87E+00	M	P	Supernatant	RAW	NaOH	1.55E+08			
A101	OH	1/3/84	7898		3.86E+00	M	P	Supernatant	RAW	NaOH	1.54E+08			
A101	OH	10/11/83	7898	1.64	3.86	moles/l	P	Supernate	Braun	NaOH	1.54E+08			
A101	OH	10/11/83	7898	1.6847	3.86	moles/l	P	Supernate	Braun	NaOH	1.54E+08			
A101	OH-	10/11/83			6.56E+01	g/L	L	Drainable Liquid	Wastren	NaOH	1.54E+08			
BY106	OH	4/13/72	7394	1.414	3.81E+00	M	L	33'10"	RAW	NaOH	1.52E+08			
BY106	OH	4/13/72	7394	1.414	3.81	moles/l	P	Supernate	Braun	NaOH	1.52E+08			
S111	NaOH	8/21/74		1.414	3.80E+00	M	P	Supernatant	RAW	NaOH	1.52E+08			
S111	NaOH	8/25/78		1.46	3.77E+00	M	P	Supernate	RAW	NaOH	1.51E+08			
S111	NaOH	8/25/78	1009-C	1.44	3.77	moles/l	P	Supernate	Braun	NaOH	1.51E+08			
S111	NaOH	8/25/78	1009-C	1.46	3.77	moles/l	P	Supernate	Braun	NaOH	1.51E+08			
BY104	OH	2/6/76	AT-BY104-	1.45	3.74	moles/l	P	Supernate	Braun	NaOH	1.50E+08			
AX101	NaOH	11/11/80		1.36	3.69E+00	M	F	Two feet below surface - Filtrate	RAW	NaOH	1.48E+08			
SX104	OH	5/14/88		1.4	3.69E+00	M	L	Bottom	RAW	NaOH	1.48E+08			
AX101	OH	11/11/80	AT-AX101-	1.36	3.69	moles/l	P	Supernate	Braun	NaOH	1.48E+08			
S111	NaOH	8/25/78		1.5	3.68E+00	M	P	Supernate	RAW	NaOH	1.47E+08			
S111	NaOH	8/25/78	RAT-S111-3	1.5	3.68	moles/l	P	Supernate	Braun	NaOH	1.47E+08			
AX101	NaOH	11/11/80		1.391	3.67E+00	M	F	Four feet below surface - Filtrate	RAW	NaOH	1.47E+08			
AX101	OH	11/11/80	AT-AX101-	1.391	3.67	moles/l	P	Supernate	Braun	NaOH	1.47E+08			
S102	OH	10/21/74	T-6761	1.4669	3.65E+00	M	L		RAW	NaOH	1.46E+08			
S102	OH	10/21/74	T-6761	1.4669	3.65	moles/l	P	Supernate	Braun	NaOH	1.46E+08			
TX115	OH	1/17/74	T-834		3.60	M	O	green-yellow, 25% solids	RAW	NaOH	1.44E+08			
TX115	OH	1/17/74	T-834		3.6	moles/l	P	Supernate	Braun	NaOH	1.44E+08			
A101	NaOH	10/13/80		1.277	3.51E+00	M	P	Supernatant	RAW	NaOH	1.40E+08			
A101	NaOH	10/22/80		1.445	3.51E+00	M	F	Filtrate	RAW	NaOH	1.40E+08			
A101	OH	10/22/80	RAT-A101-3	1.445	3.51	moles/l	F	Filtrate	Braun	NaOH	1.40E+08			
A101	OH	10/13/80	RAT-A101-2	1.277	3.51	moles/l	P	Supernate	Braun	NaOH	1.40E+08			
TX118	OH	5/14/74	T-3868	1.4238	3.45E+00	M	O	yellow, 40% solids	RAW	NaOH	1.38E+08			
TX118	OH	5/14/74	T-3868	1.42	3.45	moles/l	P	Supernate	Braun	NaOH	1.38E+08			
BX111	OH-	3/16/90	R6041	1.14	3.43E+00	M	P	Supernatant	RAW	NaOH	1.37E+08			
BX111	OH	3/16/90	R-6041	1.44	3.43	moles/l	P	Supernate	Braun	NaOH	1.37E+08			
BX111	OH-	3/16/90			5.83E+01	g/L	P	Supernate	Wastren	NaOH	1.37E+08			
TX112	OH-	2/3/81			5.82E+01	g/L	P	Supernate	Wastren	NaOH	1.37E+08			
TX112	NaOH	2/10/81		1.454	3.42E+00	M	L		RAW	NaOH	1.37E+08			
TX112	OH	2/3/81	AT-TX112-	1.45	3.42	moles/l	P	Supernate	Braun	NaOH	1.37E+08			

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX102	OH	2/3/81	AT-TX102-1	1.465	3.36	moles/l	F	Filtrate	Braun	NaOH	1.34E + 08	
TX118	OH	1/26/77	T-1205	1.31	3.36	moles/l	P	Supernate	Braun	NaOH	1.34E + 08	
BX106	OH	12/4/74	T-8441	1.4901	3.33E + 00	M	O	< 10% Solids	RAW	NaOH	1.33E + 08	
BX106	OH	12/4/74	T-8441	1.4901	3.33	moles/l	P	Supernate	Braun	NaOH	1.33E + 08	
A102	NaOH	12/23/80		1.44	3.31E + 00	M	F	Filtrate	RAW	NaOH	1.32E + 08	
A102	OH	12/23/80	RAT-A102-1	1.44	3.31	moles/l	F	Filtrate	Braun	NaOH	1.32E + 08	
BX110	NaOH	5/20/75		1.414	3.28E + 00	M	L		RAW	NaOH	1.31E + 08	
TX118	OH	2/3/77	AT-TX118-	1.26	3.22	moles/l	L	Liquor	Braun	NaOH	1.29E + 08	
TX118	OH	1/28/80	AT-TX118-	1.341	3.22	moles/l	L	Liquor	Braun	NaOH	1.29E + 08	
AX101	OH	10/7/80	5169	1.395	3.18E + 00	M	P	Supernatant	RAW	NaOH	1.27E + 08	
AX101	OH	10/7/80	5169	1.395	3.18	moles/l	P	Supernate	Braun	NaOH	1.27E + 08	
A101	OH	9/22/80	4378	1.144	3.15E + 00	M	P	Supernatant	RAW	NaOH	1.26E + 08	
A101	OH	9/22/80	4378	1.144	3.15	moles/l	P	Supernate	Braun	NaOH	1.26E + 08	
TX118	OH	1/28/80	AT-TX118-	1.333	3.13	moles/l	L	Liquor	Braun	NaOH	1.25E + 08	
A101	NaOH	11/11/80		1.45	3.12E + 00	M	F	Filtrate	RAW	NaOH	1.25E + 08	
A102	NaOH	12/23/80		1.452	3.12E + 00	M	F	Filtrate	RAW	NaOH	1.25E + 08	
A101	OH	11/11/80	AT-A101-5	1.45	3.12	moles/l	F	Filtrate	Braun	NaOH	1.25E + 08	
A102	OH	12/23/80	RAT-A102-2	1.452	3.12	moles/l	F	Filtrate	Braun	NaOH	1.25E + 08	
SX106	NaOH	4/18/78	8301	1.37	3.10E + 00	M	P	Supernatant	RAW	NaOH	1.24E + 08	
SX106	NaOH	4/18/78	8301	1.33	3.1	moles/l	P	Supernate	Braun	NaOH	1.24E + 08	
SX106	NaOH	4/18/78	8301	1.37	3.1	moles/l	P	Supernate	Braun	NaOH	1.24E + 08	
A101	OH	9/22/80	4218	1.344	3.06	moles/l	P	Supernate	Braun	NaOH	1.22E + 08	
TX104	OH-	4/19/76			5.14E + 01	g/L	P	Supernate	Wastren	NaOH	1.21E + 08	
TX104	OH	9/17/76	T-4391	1.40	3.02	M	O	dark brown	RAW	NaOH	1.21E + 08	
S102	OH	10/21/75	T-9049	1.48	3.02	moles/l	P	Supernate	Braun	NaOH	1.21E + 08	
TX104	OH	4/19/76	T-4391	1.4	3.02	moles/l	P	Supernate	Braun	NaOH	1.21E + 08	
S102	OH	8/15/75	T-7092	1.513	2.98E + 00	M	L		RAW	NaOH	1.19E + 08	
TX118	OH	6/28/74	T-5551	1.3895	2.98E + 00	M	L	murky green	RAW	NaOH	1.19E + 08	
S102	OH	8/15/75	T-7092	1.513	2.98	moles/l	P	Supernate	Braun	NaOH	1.19E + 08	
TX118	OH	6/28/74	T-5551	1.3895	2.98	moles/l	P	Supernate	Braun	NaOH	1.19E + 08	
TX105	OH	1/21/74	T-805		2.96	moles/l	P	Supernate	Braun	NaOH	1.18E + 08	
U103	OH	12/10/77	3432	1.454	2.92	moles/l	P	Supernate	Braun	NaOH	1.17E + 08	
TX110	OH-	2/10/81			4.95E + 01	g/L	P	Supernate	Wastren	NaOH	1.16E + 08	
TX110	NaOH	2/10/81		1.388	2.91E + 00	M	L		RAW	NaOH	1.16E + 08	
TX110	OH	2/3/81	AT-TX110-	1.388	2.91	moles/l	P	Supernate	Braun	NaOH	1.16E + 08	
TX110	OH	2/10/81	AT-TX110-	1.388	2.91	moles/l	P	Supernate	Braun	NaOH	1.16E + 08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY106	OH-	6/3/91			4.93E+01	g/L	L	Drainable Liquid	Wastren	NaOH	1.16E+08	
BY106	OH	11/20/90	R8083	1.15	2.90E+00	M	P	Supernatant	RAW	NaOH	1.16E+08	
BY106	OH	6/3/91	R-8083	1.46	2.90E+00	M	P	Supernatant	RAW	NaOH	1.16E+08	
BY106	OH	6/3/91	R-8093	1.47	2.90E+00	M	P	Supernatant	RAW	NaOH	1.16E+08	
BY106	OH	6/3/91	R-8083	1.46	2.9	moles/l	P	Supernate	Braun	NaOH	1.16E+08	
BY106	OH	6/3/91	R-8093	1.47	2.9	moles/l	P	Supernate	Braun	NaOH	1.16E+08	
S102	OH	12/17/74	T-8008	1.4202	2.89	moles/l	P	Supernate	Braun	NaOH	1.16E+08	
S106	OH	1/21/74	T-738	1.4913	2.86E+00	M	L		RAW	NaOH	1.14E+08	
TX118	OH	8/16/74	T-6343	1.419	2.86E+00	M	L	cloudy yellow	RAW	NaOH	1.14E+08	
S106	OH	1/21/74	T-738	1.4913	2.86	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
TX118	OH	8/16/74	T-6343	1.42	2.86	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
U103	OH	12/10/77	3665	1.547	2.86	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
A103	OH	9/12/80		1.436	2.85E+00	M	P	Supernatant	RAW	NaOH	1.14E+08	
TX103	OH	3/1/76	T-2955	1.4	2.85E+00	M	O	30% Solids light green	RAW	NaOH	1.14E+08	
A103	OH	9/22/80	RAT-A103-6	1.436	2.85	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
TX103	OH	3/1/76	T-2955	1.4	2.85	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
AX101	OH-	8/19/80			4.83E+01	g/L	P	Supernate	Wastren	NaOH	1.14E+08	
S102	OH	4/10/75	T-3478	1.38	2.84E+00	M	L		RAW	NaOH	1.14E+08	
AX101	OH	8/19/80	T-3103	1.512	2.84	moles/l	P	Supernate	Braun	NaOH	1.14E+08	
S105	OH	1/21/74	T-737	1.4833	2.83E+00	M	L		RAW	NaOH	1.13E+08	
S105	OH	1/21/74	T-737	1.4833	2.83	moles/l	P	Supernate	Braun	NaOH	1.13E+08	
TX112	OH	1/21/74	T-832		2.8	moles/l	P	Supernate	Braun	NaOH	1.12E+08	
S102	OH	6/17/74	T-3770	1.315	2.78E+00	M	L		RAW	NaOH	1.11E+08	
S102	OH	6/17/74	T-3770	1.315	2.78	moles/l	P	Supernate	Braun	NaOH	1.11E+08	
BY102	OH-	6/3/91			4.59E+01	g/L	P	Supernate	Wastren	NaOH	1.08E+08	
BY102	OH	6/3/91	R-8081	1.42	2.70E+00	M	P	Supernatant	RAW	NaOH	1.08E+08	
BY102	OH	6/3/91	R-8081	1.42	2.7	moles/l	P	Supernate	Braun	NaOH	1.08E+08	
BY112	OH	4/4/72	AT-BY112-	1.42	7.6	wt. %	L	Liquid	Braun	NaOH	1.08E+08	
S102	OH	4/4/75	T-3328	1.34	2.69	moles/l	P	Supernate	Braun	NaOH	1.08E+08	
TX106	OH	2/10/81		1.495	2.66	M	L		RAW	NaOH	1.06E+08	
TX106	OH	2/3/81	AT-TX106-	1.495	2.66	moles/l	P	Supernate	Braun	NaOH	1.06E+08	
TX106	OH-	2/3/81			4.52E+01	g/L	P	Supernate	Wastren	NaOH	1.06E+08	
S102	OH	1/2/75	T-1091	1.58	2.63E+00	M	L	No solids	RAW	NaOH	1.05E+08	
S102	OH	1/2/75	T-1091	1.58	2.63	moles/l	P	Supernate	Braun	NaOH	1.05E+08	
BY103	OH-	6/3/91			4.42E+01	g/L	L	Drainable Liquid	Wastren	NaOH	1.04E+08	
BY102	OH	6/3/91	R-8091	1.41	2.60E+00	M	P	Supernatant	RAW	NaOH	1.04E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY103	OH	6/3/91	R-8088	1.45	2.60E+00	M	P	Supernatant	RAW	NaOH	1.04E+08	
BY102	OH	6/3/91	R-8091	1.41	2.6	moles/l	P	Supernate	Braun	NaOH	1.04E+08	
BY103	OH	6/3/91	R-8088	1.45	2.6	moles/l	P	Supernate	Braun	NaOH	1.04E+08	
TX103	OH	4/9/76	T-4138	1.43	2.6	moles/l	P	Supernate	Braun	NaOH	1.04E+08	
A101	NaOH	11/10/80		1.47	2.51E+00	M	F	Filtrate	RAW	NaOH	1.00E+08	
A101	OH	11/10/80	AT-A101-4	1.47	2.51	moles/l	F	Filtrate	Braun	NaOH	1.00E+08	
BY109	OH-	6/3/91			4.25E+01	g/L	P	Supernate	Wastren	NaOH	1.00E+08	
AX103	OH (-)	8/6/79	S-1440	1.437	2.50E+00	M	L		RAW	NaOH	1.00E+08	
BY109	OH-	11/20/90	R8084	1.37	2.50E+00	M	P	Supernatant	RAW	NaOH	1.00E+08	
BY109	OH	6/3/91	R-8094	1.4	2.50E+00	M	P	Supernatant	RAW	NaOH	1.00E+08	
AX103	OH	8/6/79	S-1440	1.443	2.5	moles/l	L	Liquor	Braun	NaOH	1.00E+08	
BY109	OH	6/3/91	R-8094	1.4	2.5	moles/l	P	Supernate	Braun	NaOH	1.00E+08	
BX102	OH-	9/30/74			4.22E+01	g/L	P	Supernate	Wastren	NaOH	9.93E+07	
BX102	OH	9/30/74	T-8511	1.4669	2.48E+00	M	L		RAW	NaOH	9.92E+07	
BX102	OH	9/30/74	T-8511	1.4669	2.48	moles/l	P	Supernate	Braun	NaOH	9.92E+07	
AX103	OH-	4/27/80			4.20E+01	g/L	P	Supernate	Wastren	NaOH	9.88E+07	
AX103	OH	4/27/80	93	1.376	2.47E+00	M	L	No Solids	RAW	NaOH	9.88E+07	
AX103	OH	4/27/80	T-93	1.376	2.47	moles/l	P	Supernate	Braun	NaOH	9.88E+07	
S102	OH	11/11/75	T-9697	1.42	2.42	moles/l	P	Supernate	Braun	NaOH	9.68E+07	
BY109	OH	6/3/91	R-8084	1.3	2.40E+00	M	P	Supernatant	RAW	NaOH	9.60E+07	
BY109	OH	6/3/91	R-8084	1.3	2.4	moles/l	P	Supernate	Braun	NaOH	9.60E+07	
S102	OH	11/10/75	T-9601	1.42	2.4	moles/l	P	Supernate	Braun	NaOH	9.60E+07	
A106	NaOH	5/23/80	T-12	1.39	2.36E+00	M	L	Feed Liquor	RAW	NaOH	9.44E+07	
SX104	NaOH	3/15/76		1.49	2.36E+00	M	L	Liquor	RAW	NaOH	9.44E+07	
A106	NaOH	5/23/80	RAT-A106-1	1.39	2.36	moles/l	L	Liquor	Braun	NaOH	9.44E+07	
TX109	OH	12/28/75	T-1035	1.398	2.35E+00	M	L	dark brown	RAW	NaOH	9.40E+07	
TX118	OH	2/13/74	T-2290	1.4802	2.35E+00	M	O	green, 35% solids	RAW	NaOH	9.40E+07	
TX109	OH	12/28/75	T-1035	1.398	2.35	moles/l	P	Supernate	Braun	NaOH	9.40E+07	
TX118	OH	2/13/74	T-2290	1.48	2.35	moles/l	P	Supernate	Braun	NaOH	9.40E+07	
S102	OH	9/19/75	T-4963	1.4	2.34E+00	M	L	Solids unknownn	RAW	NaOH	9.36E+07	
TX118	OH	1/21/74	T-835		2.34E+00	M	O	dark green, 30% solids	RAW	NaOH	9.36E+07	
S102	OH	6/2/75	T-4963	1.4	2.34	moles/l	P	Supernate	Braun	NaOH	9.36E+07	
TX118	OH	1/21/74	T-835		2.34	moles/l	P	Supernate	Braun	NaOH	9.36E+07	
S102	OH	4/17/75	T-3639	1.32	2.32E+00	M	L		RAW	NaOH	9.28E+07	
S102	OH	8/25/75	T-7218	1.3662	2.32E+00	M	L	No solids	RAW	NaOH	9.28E+07	
S102	OH	4/17/75	T-3639	1.32	2.32	moles/l	P	Supernate	Braun	NaOH	9.28E+07	
S102	OH	6/13/75	T-5137	1.41	2.32	moles/l	P	Supernate	Braun	NaOH	9.28E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		
					Value	Unit				Analyte	ug/L	ID
A101	NaOH	11/2/79		1.052	2.31E+00	M	L	Liquor	RAW	NaOH	9.24E+07	
A101	NaOH	11/10/80		1.43	2.31E+00	M	F	Filtrate	RAW	NaOH	9.24E+07	
AX103	OH (-)	8/6/79	S-1423	1.444	2.31E+00	M	L		RAW	NaOH	9.24E+07	
AX103	OH	4/27/80	92	1.274	2.31E+00	M	L		RAW	NaOH	9.24E+07	
A101	OH	11/2/79	AT-A101-7	1.378	2.31	moles/l	F	Filtrate	Braun	NaOH	9.24E+07	
A101	OH	11/10/80	AT-A101-9	1.43	2.31	moles/l	F	Filtrate	Braun	NaOH	9.24E+07	
AX103	OH	8/6/79	S-1423	1.444	2.31	moles/l	L	Liquor	Braun	NaOH	9.24E+07	
AX103	OH	4/27/80	T-92	1.274	2.31	moles/l	P	Supernate	Braun	NaOH	9.24E+07	
AX101	OH	8/19/80	T-3102	1.445	2.3	moles/l	P	Supernate	Braun	NaOH	9.24E+07	
TX118	OH	1/20/75	T-1542		2.28	moles/l	P	Supernate	Braun	NaOH	9.20E+07	
TX110	OH	3/31/75	T-2784	1.37	2.27E+00	M	U	green	RAW	NaOH	9.12E+07	
TX110	OH	3/17/75	T-2704	1.37	2.27	moles/l	P	Supernate	Braun	NaOH	9.08E+07	
AX103	OH (-)	8/6/79	S-1439	1.449	2.25E+00	M	L	Supernate	Braun	NaOH	9.08E+07	
AX103	OH	8/6/79	S-1439	1.449	2.25	moles/l	L	Liquor	RAW	NaOH	9.00E+07	
TX110	OH	8/4/79	AT-TX110-	1.419	2.25	moles/l	P	Supernate	Braun	NaOH	9.00E+07	
S102	OH	5/27/75	T-4823	1.34	2.24E+00	M	L	Nondeterminable solids	Braun	NaOH	9.00E+07	
S102	OH	5/27/75	T-4823	1.34	2.24	moles/l	P	Supernate	RAW	NaOH	8.96E+07	
S104	OH	8/12/74	T-4184	1.4456	2.23E+00	M	L	Supernate	Braun	NaOH	8.96E+07	
U103	OH	4/16/76		1.305	2.23E+00	M	P	Supernatant	RAW	NaOH	8.92E+07	
S104	OH	8/12/74	T-4184	1.4456	2.23	moles/l	P	Supernate	Braun	NaOH	8.92E+07	
U103	OH	4/16/76	RAT-U103-1	1.2278	2.23	moles/l	P	Supernate	Braun	NaOH	8.92E+07	
U103	OH	4/16/76	RAT-U103-1	1.305	2.23	moles/l	P	Supernate	Braun	NaOH	8.92E+07	
SX102	OH	9/3/80		1.555	2.21E+00	mol/l	L	AL (original)	Braun	NaOH	8.92E+07	
TX118	OH	3/31/75	T-2784	1.37	2.21E+00	M	L	green, 25% solids	RAW	NaOH	8.84E+07	
TX118	OH	3/17/75	T-2784	1.37	2.21	moles/l	P	Supernate	RAW	NaOH	8.84E+07	
S102	OH	11/24/75	T-119	1.44	2.20E+00	M	L	Supernate	Braun	NaOH	8.84E+07	
S102	OH	11/24/75	T-119	1.44	2.2	moles/l	P	dark brown, cruddy	RAW	NaOH	8.80E+07	
S102	OH	8/25/75	T-7340	1.395	2.18E+00	M	L	Supernate	Braun	NaOH	8.80E+07	
S102	OH	8/25/75	T-7340	1.395	2.18	moles/l	L	No Solids	RAW	NaOH	8.72E+07	
TX105	OH	3/17/76	T-6311		2.16E+00	M	L	Supernate	Braun	NaOH	8.72E+07	
TX105	OH	8/19/76	T-6311	1.403	2.16	moles/l	P	green	RAW	NaOH	8.72E+07	
TX118	OH	12/8/74	T-462	1.5732	2.14	moles/l	P	Supernate	Braun	NaOH	8.64E+07	
SX104	OH	5/14/88		1.734	2.11E+00	M	L	Supernate	Braun	NaOH	8.64E+07	
BX105	OH	2/11/76	T-2325	1.369	2.11E+00	M	L	Bottom Water Leach	RAW	NaOH	8.56E+07	
TX111	OH	6/12/75	T-8452	1.5559	2.11E+00	M	U		RAW	NaOH	8.44E+07	
TX111	OH	9/3/74	T-8452	1.5559	2.11	moles/l	P	green	RAW	NaOH	8.44E+07	
SX104	OH	5/14/88		1.9688	2.10E+00	M	L	Supernate	Braun	NaOH	8.44E+07	
BX106	OH	4/21/75	T-3855	1.3739	2.09E+00	M	O	Top Water Leach	RAW	NaOH	8.40E+07	
								<10% Solids	RAW	NaOH	8.36E+07	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX111	NaOH	2/10/81		1.416	2.09E+00	M	L		RAW	NaOH	8.36E+07	
BX106	OH	4/21/75	T-3855	1.3739	2.09	moles/l	P	Supernate	Braun	NaOH	8.36E+07	
TX111	OH	2/3/81	AT-TX111-	1.42	2.09	moles/l	P	Supernate	Braun	NaOH	8.36E+07	
TX111	OH-	2/3/81			3.55E+01	g/L	P	Supernate	Wastren	NaOH	8.35E+07	
TX118	OH	1/10/75	T-1057	1.618	2.08E+00	M	O	green, 25% solids	RAW	NaOH	8.32E+07	
TX118	OH	12/31/74	T-1057	1.618	2.08	moles/l	P	Supernate	Braun	NaOH	8.32E+07	
BX106	OH-	3/16/90			3.52E+01	g/L	P	Supernate	Wastren	NaOH	8.28E+07	
BX106	OH	3/16/90	R6037	1.33	2.07E+00	M	P	Supernatant	RAW	NaOH	8.28E+07	
TX118	OH	5/6/74	T-3574	1.3899	2.07E+00	M	O	green, 40% solids	RAW	NaOH	8.28E+07	
BX106	OH	3/16/90	R-6037	1.33	2.07	moles/l	P	Supernate	Braun	NaOH	8.28E+07	
TX118	OH	5/6/74	T-3574	1.39	2.07	moles/l	P	Supernate	Braun	NaOH	8.28E+07	
S102	OH	1/5/76	T-1193	1.4	2.06	moles/l	P	Supernate	Braun	NaOH	8.24E+07	
S107	OH-	9/22/80			3.50E+01	g/L	P	Supernate	Wastren	NaOH	8.24E+07	
S107	OH	9/22/80		1.431	2.06E+00	M	L	One foot above Sludge	RAW	NaOH	8.23E+07	
S107	OH	9/22/80	RAT-S107-2	1.431	2.058	moles/l	P	Supernate	Braun	NaOH	8.23E+07	
SX102	OH	9/3/80		1.413	2.05E+00	mol/l	P	Supernatant	RAW	NaOH	8.20E+07	
TX118	OH	2/24/75	T-2264		2.03	moles/l	P	Supernate	Braun	NaOH	8.12E+07	
S102	NaOH	5/20/75		1.333	2.02E+00	M	L	Alkaline Waste	RAW	NaOH	8.08E+07	
SX104	OH-	5/14/88			3.40E+01	g/L	L	Drainable Liquid	Wastren	NaOH	8.00E+07	
TX113	OH-	1/18/74			3.40E+01	g/L	P	Supernate	Wastren	NaOH	8.00E+07	
SX104	OH	5/14/88		1.5	2.00E+00	M	L		RAW	NaOH	8.00E+07	
TX113	OH	1/18/74	T-848		2.0	M	O	murky yellow, 10% solids	RAW	NaOH	8.00E+07	
S102	OH	11/5/75	T-9515	1.41	2	moles/l	P	Supernate	Braun	NaOH	8.00E+07	
SX104	OH	5/14/88	AT-SX104-	1.5	2	moles/l	P	Supernate	Braun	NaOH	8.00E+07	
TX113	OH	1/18/74	T-848		2	moles/l	P	Supernate	Braun	NaOH	8.00E+07	
TX118	OH	3/25/74	T-2780	1.43	1.99E+00	M	L	green	RAW	NaOH	7.96E+07	
TX118	OH	3/25/74	T-2780	1.43	1.99	moles/l	P	Supernate	Braun	NaOH	7.96E+07	
S102	OH	8/5/75	T-6806	1.32	1.98	moles/l	P	Supernate	Braun	NaOH	7.92E+07	
TX118	OH	5/29/75	T-4900	1.2	1.98	moles/l	P	Supernate	Braun	NaOH	7.92E+07	
TX118	OH	10/21/74	T-7743	1.5886	1.97E+00	M	O	clear, yellow, 40% solids	RAW	NaOH	7.88E+07	
TX118	OH	10/21/74	T-7743	1.59	1.97	moles/l	P	Supernate	Braun	NaOH	7.88E+07	
A103	OH	10/2/80		1.402	1.96E+00	M	P	Supernatant	RAW	NaOH	7.84E+07	
S103	OH	10/5/73	T-9490	1.3517	1.96E+00	M	P	Supernatant	RAW	NaOH	7.84E+07	
A103	OH	10/2/80	RAT-A103-5	1.402	1.96	moles/l	P	Supernate	Braun	NaOH	7.84E+07	
S103	OH	10/5/73	T-9490	1.3517	1.96	moles/l	P	Supernate	Braun	NaOH	7.84E+07	
S102	OH	9/30/75	T-8446	1.398	1.94E+00	M	L	No solids	RAW	NaOH	7.76E+07	
S102	OH	9/30/75	T-8446	1.398	1.94	moles/l	P	Supernate	Braun	NaOH	7.76E+07	
S108	NaOH	6/30/74			7.69E+01	g/L	P	Supernate	Wastren	NaOH	7.69E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S108	NaOH	7/8/74	RAT-S108-4	1.513	5.08	wt. %	P	Supernate	Braun	NaOH	7.69E+07	
TX118	OH	12/17/74	T-231	1.5234	1.90E+00	M	O	green, 10% solids	RAW	NaOH	7.60E+07	
TX118	OH	4/23/75	T-2123	1.4637	1.90E+00	M	L	murky yellow	RAW	NaOH	7.60E+07	
TX118	OH	12/17/74	T-231	1.5234	1.9	moles/l	P	Supernate	Braun	NaOH	7.60E+07	
TX118	OH	2/18/75	T-2123	1.4637	1.9	moles/l	P	Supernate	Braun	NaOH	7.60E+07	
TX118	OH	12/6/74	T-8775	1.616	1.88E+00	M	O	cloudy green, <10% solids	RAW	NaOH	7.52E+07	
TX118	OH	12/6/74	T-8775	1.616	1.88	moles/l	P	Supernate	Braun	NaOH	7.52E+07	
TX118	OH	8/2/74	T-6109	1.427	1.87E+00	M	O	light green, 5% solids	RAW	NaOH	7.48E+07	
S102	OH	4/2/75	T-3259	1.24	1.87	moles/l	P	Supernate	Braun	NaOH	7.48E+07	
TX118	OH	8/2/74	T-6109	1.427	1.87	moles/l	P	Supernate	Braun	NaOH	7.48E+07	
TX118	OH	3/25/74	T-2938	1.405	1.83E+00	M	L	green	RAW	NaOH	7.32E+07	
TX118	OH	3/25/74	T-2938	1.405	1.83	moles/l	P	Supernate	Braun	NaOH	7.32E+07	
TX118	OH	10/21/74	T-7960	1.5554	1.82E+00	M	O	green, 20% solids	RAW	NaOH	7.28E+07	
TX118	OH	10/21/74	T-7960	1.5554	1.82	moles/l	P	Supernate	Braun	NaOH	7.28E+07	
TX118	OH	6/10/74	T-4773	1.3812	1.81E+00	M	O	green, 20% solids	RAW	NaOH	7.24E+07	
S109	OH	10/5/73	T-9494	1.249	1.81	moles/l	P	Supernate	Braun	NaOH	7.24E+07	
TX118	OH	6/10/74	T-4773	1.38	1.81	moles/l	P	Supernate	Braun	NaOH	7.24E+07	
S102	OH	12/9/75	T-506	1.43	1.80E+00	M	L		RAW	NaOH	7.20E+07	
TX102	OH (-1)	2/6/81		1.44	1.80E+00	M	L	dark brown	RAW	NaOH	7.20E+07	
S102	OH	12/9/75	T-506	1.43	1.8	moles/l	P	Supernate	Braun	NaOH	7.20E+07	
TX102	OH	2/3/81	AT-TX102-	1.44	1.8	moles/l	P	Supernate	Braun	NaOH	7.20E+07	
S102	OH	9/3/75	T-7703	1.3308	1.79E+00	M	L	No solids	RAW	NaOH	7.16E+07	
S102	OH	9/3/75	T-7703	1.3308	1.79	moles/l	P	Supernate	Braun	NaOH	7.16E+07	
S102	OH	8/19/75	T-7218	1.3662	1.78E+00	M	L	No Solids	RAW	NaOH	7.12E+07	
S102	OH	8/19/75	T-7218	1.3662	1.78	moles/l	P	Supernate	Braun	NaOH	7.12E+07	
U102	OH	2/26/74	T-1968	1.3817	1.76	moles/l	P	Supernate	Braun	NaOH	7.04E+07	
TX102	OH	2/2/76	T-1990	1.456	1.75E+00	M	L	dark brown	RAW	NaOH	7.00E+07	
TX102	OH	2/2/76	T-1990	1.456	1.75	moles/l	P	Supernate	Braun	NaOH	7.00E+07	
S102	OH	7/2/75	T-5792		1.74E+00	M	L		RAW	NaOH	6.96E+07	
TX118	OH	2/25/75	T-9434	1.5346	1.74E+00	M	O	green, 10% solids	RAW	NaOH	6.96E+07	
S102	OH	7/2/75	T-5792		1.74	moles/l	P	Supernate	Braun	NaOH	6.96E+07	
TX118	OH	2/25/75	T-9434	1.5346	1.74	moles/l	P	Supernate	Braun	NaOH	6.96E+07	
S102	OH	7/18/75	T-6226	1.31	1.72E+00	M	L		RAW	NaOH	6.88E+07	
TX118	OH	5/6/74	T-3701	1.3283	1.72E+00	M	L	green	RAW	NaOH	6.88E+07	
TX118	OH	5/24/74	T-4556	1.4524	1.72E+00	M	O	green, 20% solids	RAW	NaOH	6.88E+07	
S102	OH	7/18/75	T-6226	1.31	1.72	moles/l	P	Supernate	Braun	NaOH	6.88E+07	
TX118	OH	5/6/74	T-3701	1.33	1.72	moles/l	P	Supernate	Braun	NaOH	6.88E+07	
TX118	OH	5/24/74	T-4556	1.45	1.72	moles/l	P	Supernate	Braun	NaOH	6.88E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S102	OH	10/10/75	T-8706	1.38	1.70E+00	M	L	Dark Brown	RAW	NaOH	6.80E+07	
S102	OH	10/10/75	T-8706	1.38	1.7	moles/l	P	Supernate	Braun	NaOH	6.80E+07	
A103	OH	4/7/80	T-9536	1.417	1.67E+00	M	O	18% Solids	RAW	NaOH	6.68E+07	
TX107	OH	10/27/75	T-3975	1.3804	1.67E+00	M	L	yellow	RAW	NaOH	6.68E+07	
A103	OH	4/7/80	T-9536	1.417	1.67	moles/l	P	Supernate	Braun	NaOH	6.68E+07	
TX107	OH	4/28/75	T-3975	1.3804	1.67	moles/l	P	Supernate	Braun	NaOH	6.68E+07	
S102	OH	5/13/75	T-4388	1.369	1.66E+00	M	L	No Solids	RAW	NaOH	6.64E+07	
S102	OH	9/29/75	T-8350	1.346	1.66E+00	M	L	No solids	RAW	NaOH	6.64E+07	
U203	OH	9/25/75	T-8246	1.224	1.66E+00	M	L	No Solids	RAW	NaOH	6.64E+07	
S102	OH	5/13/75	T-4388	1.369	1.66	moles/l	P	Supernate	Braun	NaOH	6.64E+07	
S102	OH	9/29/75	T-8350	1.346	1.66	moles/l	P	Supernate	Braun	NaOH	6.64E+07	
S102	OH	12/5/75	T-378	1.39	1.66	moles/l	P	Supernate	Braun	NaOH	6.64E+07	
TX102	NaOH Free	9/24/65		1.418	1.65E+00	N	U	sludge	RAW	NaOH	6.60E+07	
TX110	OH	3/15/65	AT-TX110-	1.418	1.65	moles/l	P	Supernate	Braun	NaOH	6.60E+07	
TX104	NaOH Free	9/24/65		1.382	1.62E+00	N	L		RAW	NaOH	6.48E+07	
TX104	OH	3/15/65	AT-TX104-	1.38	1.62	moles/l	P	Supernate	Braun	NaOH	6.48E+07	
TX118	OH	10/19/78	4753	1.13	1.61	moles/l	P	Supernate	Braun	NaOH	6.44E+07	
S102	OH	11/21/75	T-37	1.28	1.59E+00	M	L	Greenish Brown	RAW	NaOH	6.36E+07	
S102	OH	11/21/75	T-37	1.28	1.59	moles/l	P	Supernate	Braun	NaOH	6.36E+07	
S102	OH	5/2/75	T-4104		1.58E+00	M	L		RAW	NaOH	6.32E+07	
TX118	OH	10/14/74	T-7167	1.427	1.58E+00	M	L	cloudy yellow green	RAW	NaOH	6.32E+07	
S102	OH	5/2/75	T-4104		1.58	moles/l	P	Supernate	Braun	NaOH	6.32E+07	
TX118	OH	10/14/74	T-7167	1.43	1.58	moles/l	P	Supernate	Braun	NaOH	6.32E+07	
S102	OH	11/3/75	T-9394	1.326	1.57E+00	M	L	No solids	RAW	NaOH	6.28E+07	
TX114	OH	1/21/74	T-833		1.57	M	L	clear yellow	RAW	NaOH	6.28E+07	
S102	OH	7/9/75	T-5964	1.35	1.57	moles/l	P	Supernate	Braun	NaOH	6.28E+07	
S102	OH	11/3/75	T-9394	1.326	1.57	moles/l	P	Supernate	Braun	NaOH	6.28E+07	
TX114	OH	1/21/74	T-833		1.57	moles/l	P	Supernate	Braun	NaOH	6.28E+07	
S102	OH	9/16/74	T-6006	1.256	1.53E+00	M	L		RAW	NaOH	6.12E+07	
S108	NaOH Free	3/15/65		1.296	1.53E+00	N	L		RAW	NaOH	6.12E+07	
S102	OH	9/16/74	T-6006	1.256	1.53	moles/l	P	Supernate	Braun	NaOH	6.12E+07	
S102	OH	1/7/76	T-1330	1.38	1.53	moles/l	P	Supernate	Braun	NaOH	6.12E+07	
S108	NaOH	3/15/65	RAT-S108-3	1.296	1.53	moles/l	P	Supernate	Braun	NaOH	6.12E+07	
S107	OH	9/22/80		1.108	1.52E+00	M	L	One foot below Surface	RAW	NaOH	6.08E+07	
S107	OH	9/22/80	RAT-S107-3	1.108	1.521	moles/l	P	Supernate	Braun	NaOH	6.08E+07	
S102	OH	5/8/75	T-4240	1.3612	1.52E+00	M	L		RAW	NaOH	6.08E+07	
S107	OH	7/10/78			1.52E+00	M	L	Feed	RAW	NaOH	6.08E+07	
SX104	OH	10/21/74	T-7326		1.52E+00	M	L		RAW	NaOH	6.08E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
S102	OH	5/8/75	T-4240	1.3612	1.52	moles/l	P	Supernate	Braun	NaOH	6.08E+07		
SX104	OH	10/21/74	T-7326	1.4618	1.52	moles/l	P	Supernate	Braun	NaOH	6.08E+07		
S102	OH	11/16/73	T-459	1.2927	1.51E+00	M	L		RAW	NaOH	6.04E+07		
AX101	OH	7/18/80	T-1527	1.325	1.51	moles/l	P	Supernate	Braun	NaOH	6.04E+07		
S102	OH	11/16/73	RAT-S102-4	1.29	1.51	moles/l	P	Supernate	Braun	NaOH	6.04E+07		
S102	OH	11/16/73	T-459	1.2927	1.51	moles/l	P	Supernate	Braun	NaOH	6.04E+07		
A103	OH-	8/2/79		1.398	1.48E+00	M	L	Feed Analysis	RAW	NaOH	5.92E+07		
U103	OH	1/30/74	T-1542	1.322	1.48E+00	M	L	No Solids	RAW	NaOH	5.92E+07		
A103	OH	8/2/79	RAT-A103-7	1.398	1.48	moles/l	P	Supernate	Braun	NaOH	5.92E+07		
U103	OH	1/30/74	T-1542U	1.322	1.48	moles/l	P	Supernate	Braun	NaOH	5.92E+07		
SX111	OH	9/16/74	T-4283	1.4836	1.47E+00	M	L	No Solids	RAW	NaOH	5.88E+07		
TX118	OH	10/14/74	T-7582	1.4864	1.46E+00	M	L	green, yellow, cloudy	RAW	NaOH	5.84E+07		
TX118	OH	10/14/74	T-7582	1.4864	1.46	moles/l	P	Supernate	Braun	NaOH	5.84E+07		
SX105	OH	11/19/74	T-7327	1.3444	1.44E+00	M	L	No Solids	RAW	NaOH	5.76E+07		
SX105	OH	11/19/74	T-7327	1.3444	1.44	moles/l	P	Supernate	Braun	NaOH	5.76E+07		
A101	OH	1/3/84	7879		1.43E+00	M	P	Supernatant	RAW	NaOH	5.72E+07		
S108	OH	10/5/73	T-9493	1.2455	1.43E+00	M	L	Clear, yellow	RAW	NaOH	5.72E+07		
TX118	OH	2/25/75	T-9991	1.397	1.43E+00	M	O	green, 2% solids	RAW	NaOH	5.72E+07		
A101	OH	10/10/83	7879	1.3597	1.43	moles/l	P	Supernate	Braun	NaOH	5.72E+07		
A101	OH	10/10/83	7879	1.3617	1.43	moles/l	P	Supernate	Braun	NaOH	5.72E+07		
S108	OH	10/5/73	T-9493	1.2455	1.43	moles/l	P	Supernate	Braun	NaOH	5.72E+07		
TX118	OH	2/25/75	T-9991	1.397	1.43	moles/l	P	Supernate	Braun	NaOH	5.72E+07		
TX101	OH	7/23/79	S-1468	1.241	1.41E+00	M	U	bottom	RAW	NaOH	5.64E+07		
TX103	OH	9/21/79	T-1465	1.24	1.41	moles/l	L	Liquor	Braun	NaOH	5.64E+07		
TX101	OH	7/23/79	S-1470	1.251	1.40	M	U	bottom	RAW	NaOH	5.60E+07		
TX103	OH	9/21/79	T-1470	1.25	1.4	moles/l	L	Liquor	Braun	NaOH	5.60E+07		
TX103	OH-	9/21/79			2.36E+01	g/L	P	Supernate	Wastren	NaOH	5.55E+07		
BX110	OH-	3/16/90			2.35E+01	g/L	P	Supernate	Wastren	NaOH	5.53E+07		
BX110	OH	3/16/90	R6040	1.37	1.38E+00	M	P	Supernatant	RAW	NaOH	5.52E+07		
TX118	OH	3/29/74	T-3238	1.3	1.38E+00	M	L	yellow, clear	RAW	NaOH	5.52E+07		
BX110	OH	3/16/90	R-6040	1.37	1.38	moles/l	P	Supernate	Braun	NaOH	5.52E+07		
TX118	OH	3/29/74	T-3238	1.3	1.38	moles/l	P	Supernate	Braun	NaOH	5.52E+07		
TX118	OH	11/5/74	T-9274	1.426	1.37E+00	M	O	yellow, 3% solids	RAW	NaOH	5.48E+07		
TX118	OH	11/5/74	T-9274	1.426	1.37	moles/l	P	Supernate	Braun	NaOH	5.48E+07		
TX101	OH	7/23/79	S-1469	1.243	1.36E+00	M	U	top	RAW	NaOH	5.44E+07		
TX103	OH	9/21/79	T-1467	1.24	1.36	moles/l	L	Liquor	Braun	NaOH	5.44E+07		
SX104	OH	2/19/75	T-2163		1.34E+00	M	L		RAW	NaOH	5.36E+07		
TX101	OH	7/23/79	S-1467	1.261	1.34E+00	M	U	dark brown	RAW	NaOH	5.36E+07		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
TX118	OH	6/25/74	T-5327	1.3995	1.34E+00	M	L	clear, yellow	RAW	NaOH	5.36E+07	
SX104	OH	2/19/75	T-2163		1.34	moles/l	P	Supernate	Braun	NaOH	5.36E+07	
TX118	OH	6/25/74	T-5327	1.3995	1.34	moles/l	P	Supernate	Braun	NaOH	5.36E+07	
S102	OH	1/20/76	T-1683	1.39	1.33	moles/l	P	Supernate	Braun	NaOH	5.32E+07	
TX118	OH	10/28/74	T-8232	1.42	1.32E+00	M	L	dark green	RAW	NaOH	5.28E+07	
TX118	OH	10/28/74	T-8232	1.42	1.32	moles/l	P	Supernate	Braun	NaOH	5.28E+07	
U109	NaOH	11/12/75			5.24E+01	g/L	P	Supernate	Wastren	NaOH	5.24E+07	
S102	OH	7/14/75	T-6042	1.34	1.31E+00	M	L		RAW	NaOH	5.24E+07	
U109	NaOH	11/12/75		1.24	1.31E+00	M	P	Supernatant	RAW	NaOH	5.24E+07	
S102	OH	7/14/75	T-6042	1.34	1.31	moles/l	P	Supernate	Braun	NaOH	5.24E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.05	1.31	moles/l	P	Supernate	Braun	NaOH	5.24E+07	
U109	NaOH	11/12/75	RAT-U109-1	1.24	1.31	moles/l	P	Supernate	Braun	NaOH	5.24E+07	
TX118	OH	11/25/74	T-8574	1.4404	1.31E+00	M	O	green, <10% solids	RAW	NaOH	5.22E+07	
TX118	OH	11/25/74	T-8574	1.4404	1.305	moles/l	P	Supernate	Braun	NaOH	5.22E+07	
B109	OH	11/12/75		1.282	1.29E+00	M	L	yellow	RAW	NaOH	5.16E+07	
B109	OH	10/6/75	T-8578	1.282	1.29	moles/l	P	Supernate	Braun	NaOH	5.16E+07	
B109	OH-	10/6/75			2.19E+01	g/L	P	Supernate	Wastren	NaOH	5.15E+07	
S106	OH	10/5/73	T-9492	1.2262	1.28E+00	M	L	Clear, yellow	RAW	NaOH	5.12E+07	
S106	OH	10/5/73	T-9492	1.2262	1.28	moles/l	P	Supernate	Braun	NaOH	5.12E+07	
TX105	OH-	2/3/81			2.16E+01	g/L	P	Supernate	Wastren	NaOH	5.08E+07	
A102	OH	8/4/80	T-2405	1.199	1.27E+00	M	L	Trace of brown solids	RAW	NaOH	5.08E+07	
TX105	OH	2/3/81		1.356	1.27E+00	M	L		RAW	NaOH	5.08E+07	
TX105	OH(-1)	2/6/81		1.32	1.27E+00	M	L		RAW	NaOH	5.08E+07	
TX105	NaOH	2/10/81		1.356	1.27E+00	M	L		RAW	NaOH	5.08E+07	
TX118	OH	11/20/74	T-8378	1.4639	1.27E+00	M	O	brown, 1% solids	RAW	NaOH	5.08E+07	
A102	OH	8/4/80	T-2405	1.199	1.27	moles/l	P	Supernate	Braun	NaOH	5.08E+07	
TX105	OH	2/3/81	AT-TX105-	1.356	1.27	moles/l	P	Supernate	Braun	NaOH	5.08E+07	
TX118	OH	11/20/74	T-8378	1.4639	1.27	moles/l	P	Supernate	Braun	NaOH	5.08E+07	
S112	OH	1/7/74	T-181	1.1739	1.26E+00	M	L	No Solids	RAW	NaOH	5.04E+07	
S112	OH	1/7/74	T-181	1.1739	1.26	moles/l	P	Supernate	Braun	NaOH	5.04E+07	
A102	OH	8/4/80	T-2404	1.18	1.24E+00	M	L	Clear Liquid	RAW	NaOH	4.96E+07	
S105	OH	10/5/73	T-9491	1.25	1.24E+00	M	L	Clear, yellow	RAW	NaOH	4.96E+07	
A102	OH	8/4/80	T-2404	1.18	1.24	moles/l	P	Supernate	Braun	NaOH	4.96E+07	
S105	OH	10/5/73	T-9491	1.25	1.24	moles/l	P	Supernate	Braun	NaOH	4.96E+07	
TX118	OH	1/26/75	T-1036	1.178	1.23E+00	M	L	dark brown	RAW	NaOH	4.92E+07	
U202	OH	9/25/75	T-8245	1.144	1.23E+00	M	L	No Solids	RAW	NaOH	4.92E+07	
TX118	OH	12/28/75	T-1036	1.18	1.23	moles/l	P	Supernate	Braun	NaOH	4.92E+07	
U202	OH	9/25/75	T-8245	1.144	1.23	moles/l	P	Supernate	Braun	NaOH	4.92E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U202	OH-	9/25/75			2.09E+01	g/L	P	Supernate	Wastren	NaOH	4.92E+07	
S102	OH	10/5/73	T-9488	1.2297	1.22E+00	M	L	No solids	RAW	NaOH	4.88E+07	
C104	OH	11/19/74	T-5312	1.1539	1.22	moles/l	P	Supernate	Braun	NaOH	4.88E+07	
S102	OH	9/8/75	T-7748	1.2748	1.21E+00	M	L		RAW	NaOH	4.84E+07	
S102	OH	11/19/75	T-9952	1.29	1.2	moles/l	P	Supernate	Braun	NaOH	4.80E+07	
S103	OH-	12/6/74			2.01E+01	g/L	P	Supernate	Wastren	NaOH	4.73E+07	
U106	OH-	2/26/74			2.01E+01	g/L	P	Supernate	Wastren	NaOH	4.73E+07	
S103	OH	12/6/74	T-8009	1.235	1.18E+00	M	L	Clear, yellow, no solids	RAW	NaOH	4.72E+07	
S107	OH-	9/7/78			1.18E+00	M	L		RAW	NaOH	4.72E+07	
U106	OH	2/26/74	T-1970	1.3058	1.18E+00	M	L	No Solids	RAW	NaOH	4.72E+07	
S103	OH	12/6/74	T-8009	1.235	1.18	moles/l	P	Supernate	Braun	NaOH	4.72E+07	
S107	OH	9/7/78	3148	1.208	1.18	moles/l	P	Supernate	Braun	NaOH	4.72E+07	
U106	OH	2/26/74	T-1970	1.3058	1.18	moles/l	P	Supernate	Braun	NaOH	4.72E+07	
BX102	OH-	1/27/70	T-83	1.03	1.16E+00	M	L		RAW	NaOH	4.64E+07	
S102	OH	4/29/75	T-4028	1.2538	1.16E+00	M	L	No solids	RAW	NaOH	4.64E+07	
BX102	OH	1/27/70	T-83	1.03	1.16	moles/l	P	Supernate	Braun	NaOH	4.64E+07	
S102	OH	4/29/75	T-4028	1.2538	1.16	moles/l	P	Supernate	Braun	NaOH	4.64E+07	
TX109	OH	2/2/76	T-2034	1.386	1.08E+00	M	L	brown	RAW	NaOH	4.32E+07	
TX109	OH	2/2/76	T-2034	1.386	1.08	moles/l	P	Supernate	Braun	NaOH	4.32E+07	
TX118	OH	4/23/75	T-3262	1.24	1.08	moles/l	P	Supernate	Braun	NaOH	4.32E+07	
TX118	OH	3/21/79	8385	1.089	1.08	moles/l	P	Supernate	Braun	NaOH	4.32E+07	
S102	OH	7/25/75	T-6453	1.2861	1.07E+00	M	L	No solids	RAW	NaOH	4.28E+07	
S102	OH	7/25/75	T-6453	1.2861	1.07	moles/l	P	Supernate	Braun	NaOH	4.28E+07	
TX118	OH	2/9/79	7233	1.132	1.06E+00	M	U	yellow	RAW	NaOH	4.24E+07	
TX118	OH	2/9/79	7233	1.13	1.06	moles/l	P	Supernate	Braun	NaOH	4.24E+07	
S102	OH	2/24/75	T-2278		1.06E+00	M	L	No solids	RAW	NaOH	4.23E+07	
S102	OH	2/24/75	T-2278	1.1914	1.058	moles/l	P	Supernate	Braun	NaOH	4.23E+07	
TX111	OH	2/11/76	T-8313		1.03E+00	M	L	yellow	RAW	NaOH	4.12E+07	
TX111	OH	9/26/75	T-8313		1.03	moles/l	P	Supernate	Braun	NaOH	4.12E+07	
A102	OH-	3/15/89		1.57	1.02E+00	M	L	Liquid	RAW	NaOH	4.08E+07	
A102	OH	3/14/89	R-4656	1.57	1.02	moles/l	P	Supernate	Braun	NaOH	4.08E+07	
A102	OH-	3/14/89			1.73E+01	g/L	P	Supernate	Wastren	NaOH	4.07E+07	
A106	OH	10/27/79	T-4818	1.194	1.01E+00	M	L	No Solids	RAW	NaOH	4.04E+07	
S107	OH	12/17/74	T-8078	1.201	1.01E+00	M	L	No Solids	RAW	NaOH	4.04E+07	
A106	OH	10/27/79	T-4818	1.194	1.01	moles/l	P	Supernate	Braun	NaOH	4.04E+07	
S107	OH	12/17/74	T-8078	1.201	1.01	moles/l	P	Supernate	Braun	NaOH	4.04E+07	
TX118	OH	12/15/76	T-1246	1.339	1.00E+00	M	L	dark brown	RAW	NaOH	4.00E+07	
TX118	OH	1/5/76	T-1246	1.34	1	moles/l	P	Supernate	Braun	NaOH	4.00E+07	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SX101	OH	11/20/74		1.318	9.84E-01	M	L	No Solids	RAW	NaOH	3.94E+07	
SX101	OH	11/20/74	T-6496	1.318	0.984	moles/l	P	Supernate	Braun	NaOH	3.94E+07	
BX105	OH	10/16/75	T-8924	1.176	9.82E-01	M	L		RAW	NaOH	3.93E+07	
BX105	OH	10/16/75	T-8924	1.176	0.982	moles/l	L	Liquor	Braun	NaOH	3.93E+07	
S102	OH	4/10/75	T-3478	1.38	2.84	wt. %	P	Supernate	Braun	NaOH	3.92E+07	
S102	OH	10/7/75	T-8634	1.19	9.70E-01	M	L		RAW	NaOH	3.88E+07	
S102	OH	10/7/75	T-8634	1.19	0.97	moles/l	P	Supernate	Braun	NaOH	3.88E+07	
SX103	NaOH	4/11/75		1.38	9.64E-01	M	P	Supernatant	RAW	NaOH	3.86E+07	
SX103	NaOH	4/11/75	AT-SX103-1	1.38	0.964	moles/l	P	Supernate	Braun	NaOH	3.86E+07	
SX107	OH	9/5/79	AT-SX107-	1.24	0.954	moles/l	P	Supernate	Braun	NaOH	3.82E+07	
SX107	OH-	9/5/79			1.62E+01	g/L	P	Supernate	Wastren	NaOH	3.81E+07	
TX109	OH-	2/3/81			1.60E+01	g/L	P	Supernate	Wastren	NaOH	3.76E+07	
TX109	NaOH	2/10/81		1.421	0.94	M	L		RAW	NaOH	3.76E+07	
TX109	OH	2/3/81	AT-TX109-	1.42	0.94	moles/l	P	Supernate	Braun	NaOH	3.76E+07	
A102	OH	12/8/79	T-6176	1.214	9.39E-01	M	L		RAW	NaOH	3.76E+07	
A102	OH	12/8/79	T-6176	1.214	0.939	moles/l	P	Supernate	Braun	NaOH	3.76E+07	
TX118	OH	5/14/75	T-4553		9.32E-01	M	U	dark brown	RAW	NaOH	3.73E+07	
TX118	OH	5/19/75	T-4553		0.932	moles/l	P	Supernate	Braun	NaOH	3.73E+07	
T108	OH	5/13/74	T-3391	1.1823	9.26E-01	M	L	amber, clear	RAW	NaOH	3.70E+07	
T108	OH	5/13/74	T-3391	1.1823	0.926	moles/l	P	Supernate	Braun	NaOH	3.70E+07	
T108	OH-	5/12/74			1.57E+01	g/L	P	Supernate	Wastren	NaOH	3.69E+07	
C102	OH	9/26/75	T-8306	1.136	9.13E-01	M	L		RAW	NaOH	3.65E+07	
C102	OH	9/26/75	T-8306	1.136	0.913	moles/l	P	Supernate	Braun	NaOH	3.65E+07	
TX118	OH	4/7/79	8871	1.152	9.10E-01	M	U	clear yellow	RAW	NaOH	3.64E+07	
TX118	OH	4/7/79	8871	1.15	0.91	moles/l	P	Supernate	Braun	NaOH	3.64E+07	
A103	OH	11/13/72	RAT-A103-1	1.175	0.904	moles/l	P	Supernate	Braun	NaOH	3.62E+07	
TX118	OH	1/26/77	T-2258	1.371	8.90E-01	M	L	dark brown	RAW	NaOH	3.56E+07	
TX118	OH	2/11/76	T-2258	1.37	0.89	moles/l	P	Supernate	Braun	NaOH	3.56E+07	
TX118	OH	2/25/75	T-9577	1.346	8.85E-01	M	O	yellow, clear, 5% solids	RAW	NaOH	3.54E+07	
TX118	OH	2/25/75	T-9577	1.346	0.885	moles/l	P	Supernate	Braun	NaOH	3.54E+07	
TX118	OH	10/14/74	T-6730	1.29	0.874	moles/l	P	Supernate	Braun	NaOH	3.50E+07	
C102	OH-	6/3/91			1.48E+01	g/L	P	Supernate	Wastren	NaOH	3.48E+07	
C102	OH	6/3/91	R-8089	1.15	0.87	moles/l	P	Supernate	Braun	NaOH	3.48E+07	
AX103	OH	3/14/79	7595		0.856	moles/l	P	Supernate	Braun	NaOH	3.42E+07	
BY105	OH	6/3/91	R-8082	1.38	8.40E-01	M	P	Supernatant	RAW	NaOH	3.36E+07	
TX108	OH	1/22/75	T-1139	1.4632	0.840	M	O	clear yellow crystals	RAW	NaOH	3.36E+07	
BY105	OH	6/3/91	R-8082	1.38	0.84	moles/l	P	Supernate	Braun	NaOH	3.36E+07	
TX108	OH	1/2/75	T-1139	1.4632	0.84	moles/l	P	Supernate	Braun	NaOH	3.36E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C110	OH	6/19/75	T-5491	1.134	8.31E-01	M	L		RAW	NaOH	3.32E+07	
C110	OH	6/19/75	T-5491	1.13	0.831	moles/l	P	Supernate	Braun	NaOH	3.32E+07	
TX118	OH	9/26/75	T-8311		8.29E-01	M	L	light brown	RAW	NaOH	3.32E+07	
TX118	OH	9/26/75	T-8311		0.829	moles/l	P	Supernate	Braun	NaOH	3.32E+07	
TX118	OH	1/14/76	T-1809	1.296	8.28E-01	M	L	dark brown	RAW	NaOH	3.31E+07	
TX118	OH	1/26/76	T-1809	1.296	0.828	moles/l	P	Supernate	Braun	NaOH	3.31E+07	
TX118	OH	12/22/75	T-864	1.31	0.821	moles/l	P	Supernate	Braun	NaOH	3.28E+07	
TX104	OH	9/17/74	T-5118	1.2365	8.18E-01	M	L	amber yellow	RAW	NaOH	3.27E+07	
TX104	OH	9/17/74	T-5118	1.2365	0.818	moles/l	P	Supernate	Braun	NaOH	3.27E+07	
C111	OH	2/19/75	T-2167		8.14E-01	M	L		RAW	NaOH	3.26E+07	
A102	OH	10/23/79	RAT-A102-3	1.154	0.814	moles/l	P	Supernate	Braun	NaOH	3.26E+07	
C111	OH	2/19/75	T-2167		0.814	moles/l	P	Supernate	Braun	NaOH	3.26E+07	
C111	OH-	2/19/75			1.38E+01	g/L	P	Supernate	Wastren	NaOH	3.25E+07	
S102	NaOH	3/28/80		1.43	8.00E-01	M	P	Supernatant	RAW	NaOH	3.20E+07	
TX108	OH	1/21/74	T-656	1.403	0.789	moles/l	P	Supernate	Braun	NaOH	3.16E+07	
BX103	OH	6/18/75	T-5455	1.124	7.88E-01	M	L		RAW	NaOH	3.15E+07	
BX103	OH	6/18/75	T-5455	1.1243	0.788	moles/l	P	Supernate	Braun	NaOH	3.15E+07	
T105	NaOH	3/15/65			3.12E+01	g/L	P	Supernate	Wastren	NaOH	3.12E+07	
T105	NaOH Free	9/24/65		1.126	7.79E-01	N	U	unknown	RAW	NaOH	3.12E+07	
T105	NaOH	3/15/65	RAT-T105-1	1.126	0.779	moles/l	U	Unknown	Braun	NaOH	3.12E+07	
S102	OH	2/17/76	T-2395	1.25	7.73E-01	M	L	No solids	RAW	NaOH	3.09E+07	
C109	OH-	6/19/75			1.31E+01	g/L	L	Drainable Liquid	Wastren	NaOH	3.08E+07	
AX103	NaOH	10/14/74		1.157	7.70E-01	M	P	Supernatant	RAW	NaOH	3.08E+07	
AX103	OH	10/14/74	AT-AX103-	1.157	0.77	moles/l	P	Supernate	Braun	NaOH	3.08E+07	
C109	OH	9/19/75	T-5490	1.212	7.68E-01	M	L	NO SOLIDS	RAW	NaOH	3.07E+07	
C109	OH	6/19/75	T-5490	1.21	0.768	moles/l	P	Supernate	Braun	NaOH	3.07E+07	
TX118	OH	12/28/75	T-1625	1.277	7.61E-01	M	L	dark green	RAW	NaOH	3.04E+07	
TX118	OH	1/19/76	T-1625	1.28	0.76	moles/l	P	Supernate	Braun	NaOH	3.04E+07	
TX118	OH	11/25/74	T-8995	1.3398	7.59E-01	M	L	dark brown	RAW	NaOH	3.04E+07	
TX118	OH	11/25/74	T-8995	1.3398	0.759	moles/l	P	Supernate	Braun	NaOH	3.04E+07	
C103	OH	1/24/75	T-1685	1.1729	7.41E-01	M	O		RAW	NaOH	2.96E+07	
C103	OH	1/24/75	T-1685	1.1729	0.741	moles/l	P	Supernate	Braun	NaOH	2.96E+07	
A103	OH	3/19/80	T-8951	1.24	7.40E-01	M	L		RAW	NaOH	2.96E+07	
A103	OH	3/19/80	T-8951	1.24	0.74	moles/l	P	Supernate	Braun	NaOH	2.96E+07	
A102	OH	7/17/80	T-1243	1.1554	7.38E-01	M	L		RAW	NaOH	2.95E+07	
A102	OH	7/17/80	T-1243	1.1554	0.738	moles/l	P	Supernate	Braun	NaOH	2.95E+07	
TX118	OH	4/10/75	T-3491	1.22	7.35E-01	M	U	dark brown	RAW	NaOH	2.94E+07	
TX118	OH	4/10/75	T-3491	1.22	0.735	moles/l	P	Supernate	Braun	NaOH	2.94E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
BX107	OH	11/20/74	T-5921	1.238	7.23E-01	M	L		RAW	NaOH	2.89E + 07		
BX107	OH	11/20/74	T-5921	1.238	0.723	moles/l	P	Supernate	Braun	NaOH	2.89E + 07		
BX106	OH	6/7/74	T-3766	1.194	7.21E-01	M	L		RAW	NaOH	2.88E + 07		
BX106	OH	6/7/74	T-3766	1.194	0.721	moles/l	P	Supernate	Braun	NaOH	2.88E + 07		
BY105	OH	6/3/91	R-8092	1.4	7.20E-01	M	P	Supernatant	RAW	NaOH	2.88E + 07		
BY105	OH	6/3/91	R-8092	1.4	0.72	moles/l	P	Supernate	Braun	NaOH	2.88E + 07		
BX104	OH	12/6/74	T-365	1.1286	7.18E-01	M	L		RAW	NaOH	2.87E + 07		
BX104	OH	12/6/74	T-365	1.1286	0.718	moles/l	L	Liquor	Braun	NaOH	2.87E + 07		
BY105	OH-	6/3/91			1.22E + 01	g/L	L	Drainable Liquid	Wastren	NaOH	2.87E + 07		
AX103	OH	4/5/75	T-3363	1.157	0.717	moles/l	P	Supernate	Braun	NaOH	2.87E + 07		
T101	OH	3/25/74	T-2286	1.3058	7.07E-01	M	L	clear, yellow	RAW	NaOH	2.83E + 07		
T101	OH	2/9/74	T-2286	1.306	0.707	moles/l	P	Supernate	Braun	NaOH	2.83E + 07		
T111	NaOH	3/15/65	RAT-T111-1		0.701	moles/l	P	Supernate	Braun	NaOH	2.80E + 07		
SX111	OH-	8/1/75			1.19E + 01	g/L	L	Drainable Liquid	Wastren	NaOH	2.80E + 07		
SX111	NaOH	9/12/75		1.21	7.00E-01	M	P	Supernatant	RAW	NaOH	2.80E + 07		
SX111	OH	8/1/75	AT-SX111-	1.21	0.7	moles/l	P	Supernate	Braun	NaOH	2.80E + 07		
SX111	OH	8/1/75	AT-SX111-	1.45	0.7	moles/l	P	Supernate	Braun	NaOH	2.80E + 07		
TX118	OH	6/20/75	T-3751	1.2	6.96E-01	M	O	dark brown, 10% solids	RAW	NaOH	2.78E + 07		
TX118	OH	4/21/75	T-3751	1.2	0.696	moles/l	P	Supernate	Braun	NaOH	2.78E + 07		
TX118	OH	11/29/78	5622	1.076	6.92E-01	M	U	yellow	RAW	NaOH	2.77E + 07		
TX118	OH	11/29/78	5622	1.08	0.692	moles/l	P	Supernate	Braun	NaOH	2.77E + 07		
TX118	OH	9/29/75	T-8404	1.229	0.686	moles/l	P	Supernate	Braun	NaOH	2.74E + 07		
T-203	OH				9.34E+04	g-moles	L		TRAC	NaOH	2.68E+07		
C112	OH	11/20/74	T-6185	1.2054	6.68E-01	M	L		RAW	NaOH	2.67E + 07		
TX118	OH	6/6/75	T-5179	1.18	6.68E-01	M	U	murky brown	RAW	NaOH	2.67E + 07		
C112	OH	11/20/74	T-6185	1.21	0.668	moles/l	P	Supernate	Braun	NaOH	2.67E + 07		
TX118	OH	6/6/75	T-5179	1.18	0.668	moles/l	P	Supernate	Braun	NaOH	2.67E + 07		
TX108	OH	9/25/75	T-8261	1.358	0.645	M	L	yellow	RAW	NaOH	2.58E + 07		
TX108	OH	9/25/75	T-8261	1.358	0.645	moles/l	P	Supernate	Braun	NaOH	2.58E + 07		
TX118	NaOH Free	9/24/65		1.041	6.43E-01	N	L		RAW	NaOH	2.57E + 07		
TX118	OH	12/23/78	6192	1.132	6.42E-01	M	U	yellow	RAW	NaOH	2.57E + 07		
TX118	OH	12/23/78	6192	1.13	0.642	moles/l	P	Supernate	Braun	NaOH	2.57E + 07		
U111	OH	7/8/75	T-5957	1.1178	6.35E-01	M	L	No Solids	RAW	NaOH	2.54E + 07		
U204	OH	9/25/75	T-8247	1.064	6.30E-01	M	L	No Solids	RAW	NaOH	2.52E + 07		
U204	OH	9/25/75	T-8247	1.064	0.63	moles/l	P	Supernate	Braun	NaOH	2.52E + 07		
BX106	OH	4/12/74	T-3060	1.2098	6.26E-01	M	L		RAW	NaOH	2.50E + 07		
BX106	OH	4/12/74	T-3060	1.2098	0.626	moles/l	P	Supernate	Braun	NaOH	2.50E + 07		
A102	OH	7/17/80	T-1245	1.1554	6.22E-01	M	L		RAW	NaOH	2.49E + 07		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
A102	OH	7/17/80	T-1244	1.1572	6.22E-01	M	L		RAW	NaOH	2.49E+07	
A102	OH	7/17/80	T-1244	1.1572	0.622	moles/l	P	Supernate	Braun	NaOH	2.49E+07	
A102	OH	7/17/80	T-1245	1.1554	0.622	moles/l	P	Supernate	Braun	NaOH	2.49E+07	
SX106	NaOH	2/25/77		1.458	6.20E-01	M	L	Solution	RAW	NaOH	2.48E+07	
TX118	OH	6/9/75	T-5253	1.08	6.20E-01	M	L	brown	RAW	NaOH	2.48E+07	
SX106	NaOH	2/25/77	AT-SX106-	1.458	0.62	moles/l	P	Supernate	Braun	NaOH	2.48E+07	
TX118	OH	6/9/75	T-5253	1.08	0.62	moles/l	P	Supernate	Braun	NaOH	2.48E+07	
TX118	OH	10/27/75	T-9252	1.25	6.19E-01	M	L	dark brown	RAW	NaOH	2.48E+07	
TX118	OH	10/27/75	T-9252	1.25	0.619	moles/l	P	Supernate	Braun	NaOH	2.48E+07	
TX118	OH	2/11/76	T-1451	1.289	6.13E-01	M	L	dark brown	RAW	NaOH	2.45E+07	
TX118	OH	1/14/76	T-1451	1.29	0.613	moles/l	P	Supernate	Braun	NaOH	2.45E+07	
A101	OH	8/22/80	T-2692	1.3017	0.612	moles/l	P	Supernate	Braun	NaOH	2.45E+07	
A101	OH	8/22/80	T-2691	1.2814	0.603	moles/l	P	Supernate	Braun	NaOH	2.41E+07	
TX118	OH	7/14/75	T-6083	1.22	0.588	moles/l	P	Supernate	Braun	NaOH	2.35E+07	
BX104	OH	8/14/80	T-1785	1.046	0.586	moles/l	P	Supernate	Braun	NaOH	2.34E+07	
TX118	OH	1/19/76	T-681	1.308	5.83E-01	M	L	dark green	RAW	NaOH	2.33E+07	
TX118	OH	12/15/75	T-681	1.31	0.583	moles/l	P	Supernate	Braun	NaOH	2.33E+07	
TX118	OH	4/24/75	T-3909	1.2257	5.73E-01	M	L	brown	RAW	NaOH	2.29E+07	
BX104	OH	8/14/80	T-1784	1.046	0.573	moles/l	P	Supernate	Braun	NaOH	2.29E+07	
TX118	OH	4/24/75	T-3909	1.2257	0.573	moles/l	P	Supernate	Braun	NaOH	2.29E+07	
AX102	NaOH	1/23/80		1.113	5.72E-01	M	L	Feed Liquor	RAW	NaOH	2.29E+07	
AX102	OH	1/23/80	AT-AX102-	1.113	0.572	moles/l	L	Liquor	Braun	NaOH	2.29E+07	
A102	OH	3/14/79	RAT-A102-4		0.56	moles/l	P	Supernate	Braun	NaOH	2.24E+07	
T-202	OH				4.41E+04	g-moles	L		TRAC	NaOH	2.22E+07	
A101	OH	10/14/74	T-8936	1.289	5.26E-01	M	L		RAW	NaOH	2.10E+07	
A101	OH	10/14/74	T-8936	1.289	0.526	moles/l	P	Supernate	Braun	NaOH	2.10E+07	
S103	OH	1/21/74	T-736	1.0742	5.23E-01	M	L	Clear, yellow	RAW	NaOH	2.09E+07	
S103	OH	1/21/74	T-736	1.0742	0.523	moles/l	P	Supernate	Braun	NaOH	2.09E+07	
C104	OH	5/13/74	T-3621	1.0761	0.522	moles/l	P	Supernate	Braun	NaOH	2.09E+07	
C106	NaOH	1/6/75		1.21	5.20E-01	M	P	Supernatant	RAW	NaOH	2.08E+07	
C106	NaOH	1/24/77		1.21	5.20E-01	M	L		RAW	NaOH	2.08E+07	
C106	NaOH	10/10/74	RAT-C106-2	1.21	0.52	moles/l	P	Supernate	Braun	NaOH	2.08E+07	
A101	NaOH	11/2/79		1.052	5.18E-01	M	L	Feed sample	RAW	NaOH	2.07E+07	
A101	OH	10/3/79	T-3971	1.052	0.518	moles/l	P	Supernate	Braun	NaOH	2.07E+07	
TX118	OH	11/10/75	T-9626	1.272	5.17E-01	M	L	dark brown	RAW	NaOH	2.07E+07	
TX118	OH	11/19/75	T-9626	1.272	5.17E-01	M	L	dark brown	RAW	NaOH	2.07E+07	
TX118	OH	11/1/75	T-9626	1.27	0.517	moles/l	P	Supernate	Braun	NaOH	2.07E+07	
SX115	NaOH	9/16/64			5.14E-01	M	U	unknown	RAW	NaOH	2.06E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information													Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L				
SX102	OH	10/14/74		1.2239	5.10E-01	M	L	No Solids	RAW	NaOH	2.04E+07				
TX116	NaOH	2/10/81		1.387	0.51	M	L		RAW	NaOH	2.04E+07				
SX102	OH	10/14/74	T-6736	1.2239	0.51	moles/l	P	Supernate	Braun	NaOH	2.04E+07				
TX116	OH	2/3/81	AT-TX116-	1.39	0.51	moles/l	P	Supernate	Braun	NaOH	2.04E+07				
BX105	OH	1/28/74	T-2046	1.0956	5.04E-01	M	L		RAW	NaOH	2.02E+07				
BX105	OH	2/28/74	T-2046	1.0956	0.504	moles/l	L	Liquor	Braun	NaOH	2.02E+07				
C104	OH	12/1/75	T-225	1.164	5.02E-01	M	L		RAW	NaOH	2.01E+07				
C104	OH	12/1/75	T-225	1.164	0.502	moles/l	P	Supernate	Braun	NaOH	2.01E+07				
TX118	OH	1/5/76	T-87	1.255	5.01E-01	M	L	dark brown	RAW	NaOH	2.00E+07				
TX118	OH	11/24/75	T-87	1.255	0.501	moles/l	P	Supernate	Braun	NaOH	2.00E+07				
C112	OH-	6/26/75			8.37E+00	g/L	L	Drainable Liquid	Wastren	NaOH	1.97E+07				
C112	OH	10/27/75	T-5624	1.1222	4.92E-01	M	L		RAW	NaOH	1.97E+07				
C112	OH	6/26/75	T-5624	1.12	0.492	moles/l	P	Supernate	Braun	NaOH	1.97E+07				
T112	OH-	10/27/87			8.35E+00	g/L	P	Supernate	Wastren	NaOH	1.96E+07				
T112	OH	10/27/87			4.91E-01	M	P	Supernatant	RAW	NaOH	1.96E+07				
T112	OH	10/27/87	RAT-T112-1		0.491	moles/l	P	Supernate	Braun	NaOH	1.96E+07				
S102	OH (-)	4/5/79		1.257	4.90E-01	M	L	solution	RAW	NaOH	1.96E+07				
C110	OH	6/3/91	R-8087	1.2	0.489	moles/l	P	Supernate	Braun	NaOH	1.96E+07				
S102	OH	9/2/75	T-7627	1.1716	4.88E-01	M	L	No Solids	RAW	NaOH	1.95E+07				
S102	OH	9/2/75	T-7627	1.1716	0.488	moles/l	P	Supernate	Braun	NaOH	1.95E+07				
A104	OH	3/25/74	T-2893	1.132	4.80E-01	M	L		RAW	NaOH	1.92E+07				
A104	OH	3/25/74	T-2893	1.132	0.48	moles/l	P	Supernate	Braun	NaOH	1.92E+07				
C108	OH-	6/19/75			8.13E+00	g/L	L	Drainable Liquid	Wastren	NaOH	1.91E+07				
C108	OH	6/19/75	T-5489	1.134	4.78E-01	M	L		RAW	NaOH	1.91E+07				
C108	OH	6/19/75	T-5489	1.13	0.478	moles/l	P	Supernate	Braun	NaOH	1.91E+07				
TX118	OH	12/1/75	T-267	1.23	0.476	moles/l	P	Supernate	Braun	NaOH	1.90E+07				
T102	OH-	3/13/74			8.06E+00	g/L	P	Supernate	Wastren	NaOH	1.90E+07				
T103	OH	2/9/74	T-2287	1.2382	4.74E-01	M	L	clear yellow	RAW	NaOH	1.90E+07				
T102	OH	3/13/74	T-2287	1.2382	0.474	moles/l	P	Supernate	Braun	NaOH	1.90E+07				
C103	OH	9/16/74	T-6184	1.192	4.69E-01	M	L		RAW	NaOH	1.88E+07				
C103	OH	9/16/74	T-6184	1.192	0.469	moles/l	P	Supernate	Braun	NaOH	1.88E+07				
B-204	OH				8.63E+04	g-moles	L		TRAC	NaOH	1.84E+07				
B-203	OH				8.71E+04	g-moles	L		TRAC	NaOH	1.84E+07				
T103	OH-	3/13/74			7.81E+00	g/L	P	Supernate	Wastren	NaOH	1.84E+07				
T103	OH	3/13/74	T-2288	1.2482	4.59E-01	M	L	clear yellow	RAW	NaOH	1.84E+07				
T103	OH	3/13/74	T-2288	1.2482	0.459	moles/l	P	Supernate	Braun	NaOH	1.84E+07				
C103	OH	5/1/75	T-4073	1.16	0.458	moles/l	P	Supernate	Braun	NaOH	1.83E+07				
SX106	OH	2/28/77		1.45	4.40E-01	M	P	Supernatant	RAW	NaOH	1.76E+07				

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SX106	OH	2/28/77	AT-SX106-	1.45	0.44	moles/l	P	Supernate	Braun	NaOH	1.76E+07	
SX106	OH	2/28/77	AT-SX106-	1.58	0.44	moles/l	P	Supernate	Braun	NaOH	1.76E+07	
SX106	OH	2/28/77	AT-SX106-	1.6	0.44	moles/l	P	Supernate	Braun	NaOH	1.76E+07	
AX101	NaOH	7/14/75	AT-AX101-	1.114	0.43	moles/l	P	Supernate	Braun	NaOH	1.72E+07	
C104	OH	12/5/75	T-374	1.137	4.26E-01	M	O		RAW	NaOH	1.70E+07	
C104	OH	12/5/75	T-374	1.137	0.426	moles/l	P	Supernate	Braun	NaOH	1.70E+07	
SX101	NaOH	10/29/80		1.02	4.19E-01	M	L	Shallow	RAW	NaOH	1.68E+07	
SX101	OH	10/29/80	AT-SX101-	1.02	0.419	moles/l	P	Supernate	Braun	NaOH	1.68E+07	
S101	OH	9/13/74	T-8084	1.205	4.15E-01	M	L	NO SOLID	RAW	NaOH	1.66E+07	
S101	OH	9/13/74	T-8084	1.205	0.415	moles/l	P	Supernate	Braun	NaOH	1.66E+07	
U103	NaOH Free	3/15/65		1.387	4.12E-01	N	L		RAW	NaOH	1.65E+07	
U103	OH	3/15/65	RAT-U103-2	1.387	0.412	moles/l	U	Unknown	Braun	NaOH	1.65E+07	
TX118	OH	10/13/75	T-8758	1.175	4.09E-01	M	U	brown	RAW	NaOH	1.64E+07	
TX118	OH	10/13/75	T-8758	1.175	0.409	moles/l	P	Supernate	Braun	NaOH	1.64E+07	
T109	OH-	3/13/74			6.53E+00	g/L	P	Supernate	Wastren	NaOH	1.54E+07	
BX104	OH	2/28/74	T-2045	1.1325	3.84E-01	M	L	feed	RAW	NaOH	1.54E+07	
T109	OH	5/13/74	T-2289	1.1982	3.84E-01	M	L	amber, clear	RAW	NaOH	1.54E+07	
TX118	OH	7/21/75	T-6309	1.16	3.84E-01	M	O	dark brown, 2% solids	RAW	NaOH	1.54E+07	
BX104	OH	2/28/74	T-2045	1.1325	0.384	moles/l	L	Liquor	Braun	NaOH	1.54E+07	
T109	OH	3/13/74	T-2289	1.1982	0.384	moles/l	P	Supernate	Braun	NaOH	1.54E+07	
TX118	OH	7/21/75	T-6309	1.16	0.384	moles/l	P	Supernate	Braun	NaOH	1.54E+07	
C103	OH	9/20/74	T-7563	1.0894	3.81E-01	M	L		RAW	NaOH	1.52E+07	
C103	OH	9/20/74	T-7563	1.0894	0.381	moles/l	P	Supernate	Braun	NaOH	1.52E+07	
TX118	OH	12/24/75	T-9878	1.195	3.71E-01	M	L	dark brown	RAW	NaOH	1.48E+07	
TX118	OH	11/19/75	T-9878	1.195	0.371	moles/l	P	Supernate	Braun	NaOH	1.48E+07	
SX101	NaOH	10/29/80		1.028	3.68E-01	M	L	Deep	RAW	NaOH	1.47E+07	
SX101	OH	10/29/80	AT-SX101-	1.028	0.368	moles/l	P	Supernate	Braun	NaOH	1.47E+07	
TX108	OH	2/2/76	T-1984	1.386	0.367	M	L	yellow	RAW	NaOH	1.47E+07	
TX108	OH	2/2/76	T-1989	1.386	0.367	moles/l	P	Supernate	Braun	NaOH	1.47E+07	
BX103	OH	3/17/75		1.0373	3.59E-01	M	L		RAW	NaOH	1.44E+07	
BX103	OH	3/17/75	T-2764	1.0373	0.359	moles/l	L	Liquor	Braun	NaOH	1.44E+07	
BX103	OH	11/25/74	T-8630	1.063	3.53E-01	M	L		RAW	NaOH	1.41E+07	
BX103	OH	11/25/74	T-8630	1.063	0.353	moles/l	P	Supernate	Braun	NaOH	1.41E+07	
C201	OH-	12/4/78			5.80E+00	g/L	P	Supernate	Wastren	NaOH	1.36E+07	
TX101	OH	7/24/75	T-6426	1.168	3.32E-01	M	U	dark brown	RAW	NaOH	1.33E+07	
AX102	NaOH	2/22/80	7700	1.088	3.29E-01	M	L	Liquor	RAW	NaOH	1.32E+07	
AX102	OH	2/22/80	7700	1.088	0.329	moles/l	L	Liquor	Braun	NaOH	1.32E+07	
TX105	OH	1/21/74	T-805		0.326	moles/l	L	Liquor	Braun	NaOH	1.30E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
C106	OH	3/15/76	T3294	1.162	3.24E-01	moles	O		RAW	NaOH	1.30E+07		
C106	OH	3/15/76	T-3294	1.16	0.324	moles/l	P	Supernate	Braun	NaOH	1.30E+07		
C103	OH	1/3/75	T-1174	1.162	3.11E-01	M	L		RAW	NaOH	1.24E+07		
C103	OH	1/3/75	T-1174	1.162	0.311	moles/l	P	Supernate	Braun	NaOH	1.24E+07		
S107	OH	11/17/73	476	1.1592	0.292	moles/l	P	Supernate	Braun	NaOH	1.17E+07		
TX118	OH	8/11/75	T-6959	1.1653	2.86E-01	M	L	brown	RAW	NaOH	1.14E+07		
TX118	OH	8/11/75	T-6959	1.1653	0.286	moles/l	P	Supernate	Braun	NaOH	1.14E+07		
TX108	OH-	2/5/81			4.76E+00	g/L	P	Supernate	Wastren	NaOH	1.12E+07		
TX108	OH	2/5/81	AT-TX108-	1.377	0.28	moles/l	P	Supernate	Braun	NaOH	1.12E+07		
C104	OH	12/18/75	T-769	1.16	2.76E-01	M	L		RAW	NaOH	1.10E+07		
TX108	NaOH	2/10/81		1.377	0.275	M	U		RAW	NaOH	1.10E+07		
C104	OH	12/18/75	T-769	1.16	0.27	moles/l	P	Supernate	Braun	NaOH	1.08E+07		
T101	OH	10/27/75	T-2381	1.3049	2.67E-01	M	L	clear, yellow	RAW	NaOH	1.07E+07		
T101	OH	3/3/75	T-2381	1.3049	0.267	moles/l	P	Supernate	Braun	NaOH	1.07E+07		
BX103	OH	4/14/75	T-3635	1.13	2.64E-01	M	L		RAW	NaOH	1.06E+07		
BX103	OH	4/14/75	T-3635	1.1383	0.264	moles/l	P	Supernate	Braun	NaOH	1.06E+07		
TX118	OH	6/16/75	T-5393	1.16	2.62E-01	M	U	dark brown	RAW	NaOH	1.05E+07		
TX118	OH	6/16/75	T-5393	1.16	0.262	moles/l	P	Supernate	Braun	NaOH	1.05E+07		
T111	OH	6/7/74	T-3304	1.018	2.54E-01	M	L	clear yellow	RAW	NaOH	1.02E+07		
T111	OH	6/7/74	T-3304	1.018	0.254	moles/l	P	Supernate	Braun	NaOH	1.02E+07		
SX101	OH	7/14/80	T-1013	1.06	0.253	moles/l	P	Supernate	Braun	NaOH	1.01E+07		
T112	OH	8/14/74	T-5821	1.054	2.49E-01	M	L	clear brown	RAW	NaOH	9.96E+06		
T112	OH	8/14/74	T-5821	1.054	0.249	moles/l	P	Supernate	Braun	NaOH	9.96E+06		
B102	NaOH	6/29/73			2.40E-01	M	P	Supernatant	RAW	NaOH	9.60E+06		
T106	OH-	6/18/73	T-7422		2.40E-01	M	I	clear, yellow	RAW	NaOH	9.60E+06		
B102	OH	6/29/73	RAT-B102-1	1.249	0.24	moles/l	P	Supernate	Braun	NaOH	9.60E+06		
T106	OH	6/18/73	T-7422		0.24	moles/l	P	Supernate	Braun	NaOH	9.60E+06		
A-105	OH				1.61E+04	g-moles	L		TRAC	NaOH	9.34E+06		
TX107	OH-	8/18/75			3.95E+00	g/L	P	Supernate	Wastren	NaOH	9.29E+06		
TX107	OH	9/10/75	T-7178		2.32E-01	M	L	dark brown	RAW	NaOH	9.28E+06		
TX107	OH	8/18/75	T-7178		0.232	moles/l	P	Supernate	Braun	NaOH	9.28E+06		
BX104	OH	7/15/75	T-6110	1.1471	2.17E-01	M	L		RAW	NaOH	8.68E+06		
BX104	OH	7/15/75	T-6110	1.1471	0.217	moles/l	L	Liquor	Braun	NaOH	8.68E+06		
T101	OH	8/1/89		1.2	2.15E-01	mol/l	F	Filtrate	RAW	NaOH	8.60E+06		
C103	OH	11/11/74	T-9661	1.083	2.10E-01	M	L		RAW	NaOH	8.40E+06		
C103	OH	5/20/75	T-9661	1.083	0.21	moles/l	P	Supernate	Braun	NaOH	8.40E+06		
T111	OH	9/24/74	T-4893	1.0202	0.206	moles/l	P	Supernate	Braun	NaOH	8.24E+06		
TX101	OH	10/5/76	T-7478	1.189	0.204	M	L	amber	RAW	NaOH	8.16E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
TX115	OH-	2/3/81			3.40E+00	g/L	P	Supernate	Wastren	NaOH	8.00E+06		
TX115	NaOH	2/10/81		1.268	0.200	M	L		RAW	NaOH	8.00E+06		
TX115	OH	2/3/81	AT-TX115-	1.27	0.2	moles/l	P	Supernate	Braun	NaOH	8.00E+06		
A102	OH	3/13/80	7957	1.064	0.19	moles/l	P	Supernate	Braun	NaOH	7.60E+06		
A102	OH	3/13/80	7956	1.065	0.19	moles/l	P	Supernate	Braun	NaOH	7.60E+06		
S107	OH-	11/6/73	178	1.14	1.86E-01	M	L		RAW	NaOH	7.44E+06		
S107	OH	11/6/73	T-178	1.1071	1.86E-01	M	P	Supernate	RAW	NaOH	7.44E+06		
S107	OH	11/6/73	178	1.14	0.186	moles/l	P	Supernate	Braun	NaOH	7.44E+06		
SX106	OH	11/1/79	T-4379	1.11	0.183	moles/l	P	Supernate	Braun	NaOH	7.32E+06		
SX106	OH-	11/1/79			3.11E+00	g/L	P	Supernate	Wastren	NaOH	7.32E+06		
TX108	NaOH Free	9/24/65		1.246	0.18	N	L		RAW	NaOH	7.20E+06		
TX108	OH	3/15/65	AT-TX108-	1.246	0.18	moles/l	P	Supernate	Braun	NaOH	7.20E+06		
AX102	NaOH	2/22/80	7701	1.071	1.72E-01	M	L	Liquor	RAW	NaOH	6.88E+06		
AX102	OH	2/22/80	7701	1.071	0.172	moles/l	L	Liquor	Braun	NaOH	6.88E+06		
C107	OH-	6/3/91			2.89E+00	g/L	L	Drainable Liquid	Wastren	NaOH	6.80E+06		
C107	OH	6/3/91	R-8046	1.14	0.17	moles/l	P	Supernate	Braun	NaOH	6.80E+06		
SX101	OH-	4/26/89			2.72E+00	g/L	L	Drainable Liquid	Wastren	NaOH	6.40E+06		
SX101	OH-	2/22/90		1.11	1.60E-01	M	L	Liquid	RAW	NaOH	6.40E+06		
T101	NaOH	3/10/93	R-2846	1.21	1.60E-01	M	L	Supernate	RAW	NaOH	6.40E+06		
SX101	OH	4/26/89	R-4984	1.11	0.16	moles/l	P	Supernate	Braun	NaOH	6.40E+06		
B103	OH	5/9/75	T-4298	1.117	1.32E-01	M	L	yellow	RAW	NaOH	5.28E+06		
B103	OH	5/9/75	T-4298	1.117	0.132	moles/l	P	Supernate	Braun	NaOH	5.28E+06		
B103	OH-	5/9/75			2.24E+00	g/L	P	Supernate	Wastren	NaOH	5.27E+06		
B103	OH	10/20/75	T-7809	1.1253	1.28E-01	M	L	yellow	RAW	NaOH	5.12E+06		
B-202	OH				1.27E+04	g-moles	L		TRAC	NaOH	5.08E+06		
A101	OH	10/2/79	T-3970	0.9952	0.126	moles/l	P	Supernate	Braun	NaOH	5.04E+06		
T204	OH-	12/4/78			2.14E+00	g/L	L	Drainable Liquid	Wastren	NaOH	5.04E+06		
BX107	OH-	3/16/90	R6038	1.22	1.09E-01	M	P	Supernatant	RAW	NaOH	4.36E+06		
BX109	OH	3/16/90	R6039	1.34	1.09E-01	M	P	Supernatant	RAW	NaOH	4.36E+06		
T105	OH	9/17/74	T-4927	1.213	1.09E-01	M	I	dark amber	RAW	NaOH	4.36E+06		
BX107	OH	3/16/90	R-6038	1.22	0.109	moles/l	P	Supernate	Braun	NaOH	4.36E+06		
BX109	OH	3/16/90	R-6039	1.34	0.109	moles/l	P	Supernate	Braun	NaOH	4.36E+06		
TX105	OH	9/17/74	T-4927	1.213	0.109	moles/l	P	Supernate	Braun	NaOH	4.36E+06		
BX107	OH-	3/16/90			1.85E+00	g/L	P	Supernate	Wastren	NaOH	4.35E+06		
BX109	OH-	3/16/90			1.85E+00	g/L	P	Supernate	Wastren	NaOH	4.35E+06		
U107	OH	10/14/74	T-8938	1.016	9.51E-02	M	L	No solids	RAW	NaOH	3.80E+06		
U107	OH	10/14/74	T-8938	1.016	0.0951	moles/l	P	Supernate	Braun	NaOH	3.80E+06		
T107	OH	9/25/75	T-8248	1.129	0.0807	moles/l	P	Supernate	Braun	NaOH	3.23E+06		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
BX112	OH-	3/16/90	R6042	1.2	7.32E-02	M	P	Supernatant	RAW	NaOH	2.93E+06		
BX112	OH	3/16/90	R-6042	1.2	0.0732	moles/l	P	Supernate	Braun	NaOH	2.93E+06		
BX112	OH-	3/16/90			1.24E+00	g/L	P	Supernate	Wastren	NaOH	2.92E+06		
C103	OH	3/28/75	T-3097	1.1434	7.20E-02	M	L		RAW	NaOH	2.88E+06		
C103	OH	3/28/75	T-3097	1.1434	0.072	moles/l	P	Supernate	Braun	NaOH	2.88E+06		
B102	OH-	10/24/75			8.78E-01	g/L	P	Supernate	Wastren	NaOH	2.07E+06		
B102	OH	10/24/75	T-4887	1.1383	5.16E-02	M	L	No Solids	RAW	NaOH	2.06E+06		
B102	OH	10/24/75	T-4887	1.1383	0.0516	moles/l	P	Supernate	Braun	NaOH	2.06E+06		
TY101	NaOH	12/6/82		1.086	5.00E-02	M	F		RAW	NaOH	2.00E+06		
TY101	NaOH	12/6/82	T-3533	1.086	0.05	moles/l	F	Filtrate	Braun	NaOH	2.00E+06		
BX104	OH	10/29/74	T-9245	1.121	0.0478	moles/l	L	Liquor	Braun	NaOH	1.91E+06		
U110	OH	10/21/75	T-5956	1.01	1.73E+03	ug/ml	P	Supernate	RAW	NaOH	1.73E+06		
SX106	OH-	11/13/78	5268		3.80E-02	M	P	Liquid, water like	RAW	NaOH	1.52E+06		
SX106	OH	11/13/78	5268		0.038	moles/l	P	Supernate	Braun	NaOH	1.52E+06		
B202	OH	12/10/75	T-8579	1.018	3.20E-02	M	L	clear	RAW	NaOH	1.28E+06		
B202	OH	10/6/75	T-8579	1.018	0.032	moles/l	P	Supernate	Braun	NaOH	1.28E+06		
B106	OH-	10/6/75			5.27E-01	g/L	P	Supernate	Wastren	NaOH	1.24E+06		
B106	OH	12/1/75	T-8577	1.227	3.10E-02	M	L	yellow	RAW	NaOH	1.24E+06		
B106	OH	10/6/75	T-8577	1.227	0.031	moles/l	P	Supernate	Braun	NaOH	1.24E+06		
TY101	OH	3/15/65	AT-TY101-	1.315	0.031	moles/l	U	Unknown	Braun	NaOH	1.24E+06		
S106	OH	10/14/74	T-5469	1.0004	3.00E-02	M	L	No solids	RAW	NaOH	1.20E+06		
S106	OH	10/14/74	T-5469	1.0004	0.03	moles/l	P	Supernate	Braun	NaOH	1.20E+06		
SX106	OH	12/6/74	T-8041	1.004	2.64E-02	M	L	No Solids	RAW	NaOH	1.06E+06		
SX106	OH	12/6/74	T-8041	1.004	0.0264	moles/l	P	Supernate	Braun	NaOH	1.06E+06		
Minimum Plot Limit: 1.00E+06 ug/L													
T107	OH	8/1/89		1.2	2.49E-02	M/L	P	supernatant	RAW	NaOH	9.96E+05		
T107	OH	8/1/89	RAT-T107-1	1.2	0.0249	moles/l	P	Supernate	Braun	NaOH	9.96E+05		
T107	OH-	8/1/89			4.23E-01	g/L	P	Supernate	Wastren	NaOH	9.95E+05		
TX111	NaOH Free	2/24/65		1.032	0.021	N	L		RAW	NaOH	8.40E+05		
BX105	OH	1/14/75	T-1437	1.2034	0.0189	moles/l	L	Liquor	Braun	NaOH	7.56E+05		
C204	OH-	6/26/75			3.21E-01	g/L	P	Supernate	Wastren	NaOH	7.55E+05		
TY103	NaOH	9/30/85	353DXXXX		1.70E-02	M	L	Drainable Liquor	RAW	NaOH	6.80E+05		
TY103	NaOH	9/30/85	353DXXXX		1.70E-02	M	L	Drainable Liquor	RAW	NaOH	6.80E+05		
TY103	NaOH	9/30/85	353DXXXX		1.70E-02	M	L	Drainable Liquor	RAW	NaOH	6.80E+05		
TY103	OH	8/21/85	35XD0000		0.017	moles/l	L	Liquor	Braun	NaOH	6.80E+05		
TY104	OH Free	8/6/85	211DXXXX	1.16	1.60E-02	M	L	Drainable Liquor	RAW	NaOH	6.40E+05		
TY104	NaOH	9/30/85	211DXXXX		1.60E-02	M	L	Drainable Liquor	RAW	NaOH	6.40E+05		
TY104	NaOH	9/30/85	211DXXXX		1.60E-02	M	L	Drainable Liquor	RAW	NaOH	6.40E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TY104	NaOH	9/30/85	211DXXXX		1.60E-02	M	L	Drainable Liquor	RAW	NaOH	6.40E+05	
TY104	OH	8/6/85	211D0000	1.16	0.016	moles/l	L	Liquor	Braun	NaOH	6.40E+05	
TY104	OH-	8/12/85			2.21E-01	g/L	P	Supernate	Wastren	NaOH	5.20E+05	
TY104	OH Free	8/6/85	241DXXXX	1.18	1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	OH Free	8/6/85	232DXXXX	1.21	1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	NaOH	9/30/85	232DXXXX		1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	NaOH	9/30/85	241DXXXX		1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	NaOH	9/30/85	232DXXXX		1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	NaOH	9/30/85	232DXXXX		1.30E-02	M	L	Drainable Liquor	RAW	NaOH	5.20E+05	
TY104	OH	8/6/85	241D0000	1.18	0.013	moles/l	L	Liquor	Braun	NaOH	5.20E+05	
TY104	OH	8/12/85	232D0000	1.21	0.013	moles/l	L	Liquor	Braun	NaOH	5.20E+05	
TX118	OH	9/8/75	T-7617	1.2367	5.00E-03	M	L	dark brown	RAW	NaOH	2.00E+05	
C104	OH	10/6/75	T-8583	1.227	0.005	moles/l	P	Supernate	Braun	NaOH	2.00E+05	
TX118	OH	9/2/75	T-7617	1.24	0.005	moles/l	P	Supernate	Braun	NaOH	2.00E+05	
BX103	OH-	10/23/75			8.06E-02	g/L	P	Supernate	Wastren	NaOH	1.90E+05	
TY-103	OH				1.48E+03	g-moles	L		TRAC	NaOH	1.03E+05	
C-204	OH				1.63E+01	g-moles	L		TRAC	NaOH	5.73E+04	
TY103	NaOH	9/30/85	33XDXXXD		1.00E-03	M	L	Drainable Liquor	RAW	NaOH	4.00E+04	
TY103	NaOH	9/30/85	354DXXXD		1.00E-03	M	L	Drainable Liquor	RAW	NaOH	4.00E+04	
TY103	NaOH	9/30/85	33XDXXXD		1.00E-03	M	L	Drainable Liquor	RAW	NaOH	4.00E+04	
TY103	NaOH	9/30/85	354DXXXD		1.00E-03	M	L	Drainable Liquor	RAW	NaOH	4.00E+04	
TY103	OH	8/21/85	36XD0000		0.001	moles/l	L	Liquor	Braun	NaOH	4.00E+04	
TX-107	OH				9.73E+01	g-moles	L		TRAC	NaOH	2.57E+04	
B-101	OH				1.57E+02	g-moles	L		TRAC	NaOH	1.77E+04	
SX101	OH	12/4/78	4523	1.52	0.0004	moles/l	P	Supernate	Braun	NaOH	1.60E+04	
SX101	OH	12/4/78	4523	1.76	0.0004	moles/l	P	Supernate	Braun	NaOH	1.60E+04	
B-108	OH				3.68E+00	g-moles	L		TRAC	NaOH	1.17E+04	
TX-108	OH				4.75E+01	g-moles	L		TRAC	NaOH	7.85E+03	
TY-106	OH				7.77E+00	g-moles	L		TRAC	NaOH	5.78E+03	
C-101	OH				3.80E+00	g-moles	L		TRAC	NaOH	5.43E+03	
BX-110	OH				7.27E+01	g-moles	L		TRAC	NaOH	5.37E+03	
C-108	OH				2.45E+00	g-moles	L		TRAC	NaOH	5.03E+03	
BX-111	OH				8.56E+01	g-moles	L		TRAC	NaOH	4.88E+03	
BY-109	OH				3.66E+01	g-moles	L		TRAC	NaOH	4.77E+03	
T-201	OH				1.25E+01	g-moles	L		TRAC	NaOH	4.71E+03	
T-204	OH				1.67E+01	g-moles	L		TRAC	NaOH	4.64E+03	
TY-105	OH				1.16E+02	g-moles	L		TRAC	NaOH	4.37E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

Tank	Reported Chemical	Date	Sample #	Tank Waste Characterization Sample Information			Sample State	Source	Analyte Information		ID
				Density	Reported Value	Unit			Analyte	ug/L	
C-110	OH				8.43E+01	g-moles	L	TRAC	NaOH	4.30E+03	
S-106	OH				2.29E+02	g-moles	L	TRAC	NaOH	4.28E+03	
TY-102	OH				2.49E+01	g-moles	L	TRAC	NaOH	4.17E+03	
TX-109	OH				1.56E+02	g-moles	L	TRAC	NaOH	4.11E+03	
TX-111	OH				1.52E+02	g-moles	L	TRAC	NaOH	4.08E+03	
T-107	OH				6.61E+01	g-moles	L	TRAC	NaOH	4.06E+03	
TX-112	OH				2.55E+02	g-moles	L	TRAC	NaOH	4.03E+03	
T-101	OH				4.95E+01	g-moles	L	TRAC	NaOH	4.02E+03	
B-105	OH				7.38E+01	g-moles	L	TRAC	NaOH	4.01E+03	
AW-102	OH				1.14E+01	g-moles	L	TRAC	NaOH	4.01E+03	
BX-101	OH				1.06E+01	g-moles	L	TRAC	NaOH	4.01E+03	
TX-110	OH				1.96E+02	g-moles	L	TRAC	NaOH	4.01E+03	
U-108	OH				1.28E+02	g-moles	L	TRAC	NaOH	4.01E+03	
SX-101	OH				6.00E+01	g-moles	L	TRAC	NaOH	4.01E+03	
BY-110	OH				1.91E+02	g-moles	L	TRAC	NaOH	4.01E+03	
U-111	OH				5.01E+01	g-moles	L	TRAC	NaOH	4.01E+03	
T-104	OH				1.78E+02	g-moles	L	TRAC	NaOH	4.01E+03	
BX-107	OH				1.40E+02	g-moles	L	TRAC	NaOH	4.00E+03	
TY-104	OH				1.73E+01	g-moles	L	TRAC	NaOH	4.00E+03	
SY-103	OH				2.06E+02	g-moles	L	TRAC	NaOH	4.00E+03	
BY-105	OH				2.17E+02	g-moles	L	TRAC	NaOH	4.00E+03	
B-201	OH				1.10E+01	g-moles	L	TRAC	NaOH	4.00E+03	
U-105	OH				1.54E+02	g-moles	L	TRAC	NaOH	4.00E+03	
A-106	OH				4.02E+01	g-moles	L	TRAC	NaOH	4.00E+03	
AW-106	OH				2.04E+02	g-moles	L	TRAC	NaOH	4.00E+03	
TX-106	OH				1.71E+02	g-moles	L	TRAC	NaOH	4.00E+03	
BY-104	OH				2.18E+02	g-moles	L	TRAC	NaOH	4.00E+03	
TX-114	OH				2.43E+02	g-moles	L	TRAC	NaOH	4.00E+03	
S-111	OH				2.21E+02	g-moles	L	TRAC	NaOH	4.00E+03	
TX-113	OH				2.10E+02	g-moles	L	TRAC	NaOH	4.00E+03	
B-109	OH				2.49E+01	g-moles	L	TRAC	NaOH	4.00E+03	
AZ-102	OH				3.49E+02	g-moles	L	TRAC	NaOH	4.00E+03	
AW-101	OH				3.41E+00	g-moles	L	TRAC	NaOH	4.00E+03	
B-107	OH				6.10E+01	g-moles	L	TRAC	NaOH	4.00E+03	
B-106	OH				3.08E+01	g-moles	L	TRAC	NaOH	4.00E+03	
S-110	OH				2.36E+02	g-moles	L	TRAC	NaOH	4.00E+03	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B -103	OH				3.39E+01	g-moles	L		TRAC	NaOH	4.00E+03	
SY-101	OH				4.28E+02	g-moles	L		TRAC	NaOH	4.00E+03	
C -107	OH				1.14E+02	g-moles	L		TRAC	NaOH	4.00E+03	
S -108	OH				2.28E+02	g-moles	L		TRAC	NaOH	4.00E+03	
S -105	OH				1.28E+02	g-moles	L		TRAC	NaOH	4.00E+03	
U -103	OH				1.28E+02	g-moles	L		TRAC	NaOH	4.00E+03	
C -112	OH				3.73E+01	g-moles	L		TRAC	NaOH	4.00E+03	
T -102	OH				5.68E+00	g-moles	L		TRAC	NaOH	4.00E+03	
B -102	OH				1.81E+01	g-moles	L		TRAC	NaOH	4.00E+03	
AX-101	OH				2.87E+02	g-moles	L		TRAC	NaOH	4.00E+03	
C -203	OH				3.40E+00	g-moles	L		TRAC	NaOH	4.00E+03	
AZ-101	OH				3.01E+02	g-moles	L		TRAC	NaOH	4.00E+03	
BY-108	OH				1.31E+02	g-moles	L		TRAC	NaOH	4.00E+03	
S -101	OH				8.67E+01	g-moles	L		TRAC	NaOH	4.00E+03	
C -202	OH				2.93E-01	g-moles	L		TRAC	NaOH	4.00E+03	
T -103	OH				8.82E+00	g-moles	L		TRAC	NaOH	4.00E+03	
AX-102	OH				2.01E+01	g-moles	L		TRAC	NaOH	4.00E+03	
TX-105	OH				2.15E+02	g-moles	L		TRAC	NaOH	3.99E+03	
AW-103	OH				3.63E+02	g-moles	L		TRAC	NaOH	3.99E+03	
AX-103	OH				4.58E+01	g-moles	L		TRAC	NaOH	3.99E+03	
T -108	OH				1.62E+01	g-moles	L		TRAC	NaOH	3.99E+03	
BY-112	OH				4.92E+01	g-moles	L		TRAC	NaOH	3.99E+03	
TX-103	OH				7.72E+01	g-moles	L		TRAC	NaOH	3.99E+03	
C -109	OH				2.21E+01	g-moles	L		TRAC	NaOH	3.99E+03	
A -101	OH				2.49E+02	g-moles	L		TRAC	NaOH	3.99E+03	
AY-102	OH				8.59E+01	g-moles	L		TRAC	NaOH	3.99E+03	
U -106	OH				8.59E+01	g-moles	L		TRAC	NaOH	3.99E+03	
BX-108	OH				8.06E+00	g-moles	L		TRAC	NaOH	3.99E+03	
U -104	OH				4.73E+01	g-moles	L		TRAC	NaOH	3.99E+03	
S -102	OH				1.40E+02	g-moles	L		TRAC	NaOH	3.99E+03	
SY-102	OH				2.13E+02	g-moles	L		TRAC	NaOH	3.99E+03	
TX-116	OH				1.43E+02	g-moles	L		TRAC	NaOH	3.99E+03	
U -102	OH				1.43E+02	g-moles	L		TRAC	NaOH	3.99E+03	
T -109	OH				5.56E+01	g-moles	L		TRAC	NaOH	3.99E+03	
C -102	OH				9.87E+01	g-moles	L		TRAC	NaOH	3.99E+03	
TX-102	OH				1.21E+02	g-moles	L		TRAC	NaOH	3.99E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Liquids [Sketch ES-VAL-CC29]
 ASA Value: 2.13E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX-109	OH				7.60E+01	g-moles	L		TRAC	NaOH	3.99E+03	
TY-101	OH				3.97E+01	g-moles	L		TRAC	NaOH	3.99E+03	
AW-105	OH				3.55E+02	g-moles	L		TRAC	NaOH	3.99E+03	
U -109	OH				1.72E+02	g-moles	L		TRAC	NaOH	3.99E+03	
C -111	OH				2.06E+01	g-moles	L		TRAC	NaOH	3.99E+03	
S -104	OH				1.75E+01	g-moles	L		TRAC	NaOH	3.99E+03	
A -103	OH				1.92E+02	g-moles	L		TRAC	NaOH	3.99E+03	
BX-112	OH				5.14E+01	g-moles	L		TRAC	NaOH	3.99E+03	
TX-104	OH				2.57E+01	g-moles	L		TRAC	NaOH	3.99E+03	
BY-106	OH				2.26E+02	g-moles	L		TRAC	NaOH	3.99E+03	
SX-105	OH				2.26E+02	g-moles	L		TRAC	NaOH	3.99E+03	
AY-101	OH				3.08E+02	g-moles	L		TRAC	NaOH	3.99E+03	
SX-104	OH				1.30E+02	g-moles	L		TRAC	NaOH	3.99E+03	
BY-111	OH				2.32E+02	g-moles	L		TRAC	NaOH	3.99E+03	
TX-115	OH				2.35E+02	g-moles	L		TRAC	NaOH	3.99E+03	
U -110	OH				1.39E+01	g-moles	L		TRAC	NaOH	3.99E+03	
S -107	OH				3.89E+01	g-moles	L		TRAC	NaOH	3.99E+03	
BY-101	OH				1.28E+02	g-moles	L		TRAC	NaOH	3.99E+03	
C -104	OH				7.06E+01	g-moles	L		TRAC	NaOH	3.98E+03	
C -106	OH				6.38E+01	g-moles	L		TRAC	NaOH	3.98E+03	
C -201	OH				1.51E+00	g-moles	L		TRAC	NaOH	3.98E+03	
BY-107	OH				1.17E+02	g-moles	L		TRAC	NaOH	3.98E+03	
SX-106	OH				1.80E+02	g-moles	L		TRAC	NaOH	3.98E+03	
TX-117	OH				1.40E+02	g-moles	L		TRAC	NaOH	3.98E+03	
B -104	OH				3.81E+01	g-moles	L		TRAC	NaOH	3.98E+03	
U -107	OH				1.47E+02	g-moles	L		TRAC	NaOH	3.98E+03	
C107	OH	6/3/91	R8086	1.14	1.70E-01	PPM	P	supernatant	RAW	NaOH	1.94E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
A105	OH				2.18E+05	g-moles	S		TRAC	NaOH	2.87E+09	4
S111	OH				1.05E+07	g-moles	S		TRAC	NaOH	2.77E+09	4
T103	OH				3.06E+06	g-moles	S		TRAC	NaOH	2.78E+09	4
BX108	OH				1.07E+06	g-moles	S		TRAC	NaOH	2.40E+09	4
BY111	OH				1.80E+06	g-moles	S		TRAC	NaOH	2.37E+09	4
TX106	OH				4.45E+05	g-moles	S		TRAC	NaOH	2.35E+09	4
S110	OH				1.53E+07	g-moles	S		TRAC	NaOH	2.34E+09	4
C107	OH				7.85E+06	g-moles	S		TRAC	NaOH	2.30E+09	4
A103	OH				1.67E+06	g-moles	S		TRAC	NaOH	2.20E+09	4
BX102	OH				1.14E+07	g-moles	S		TRAC	NaOH	2.14E+09	4
BX101	OH				3.66E+06	g-moles	S		TRAC	NaOH	2.13E+09	4
AX102	OH				1.77E+05	g-moles	S		TRAC	NaOH	2.08E+09	4
AX101	OH				7.83E+05	g-moles	S		TRAC	NaOH	2.07E+09	4
A108	OH				4.30E+06	g-moles	S		TRAC	NaOH	2.06E+09	4
C111	OH				1.39E+06	g-moles	S		TRAC	NaOH	1.98E+09	4
TY103	OH				3.62E+06	g-moles	S		TRAC	NaOH	1.82E+09	4
C102	OH				2.72E+07	g-moles	S		TRAC	NaOH	1.69E+09	4
BY105	OH				7.39E+06	g-moles	S		TRAC	NaOH	1.44E+09	4
BY107	OH				2.18E+06	g-moles	S		TRAC	NaOH	1.44E+09	4
BY106	OH				3.80E+06	g-moles	S		TRAC	NaOH	1.43E+09	4
C104	OH				1.71E+07	g-moles	S		TRAC	NaOH	1.41E+09	4
C112	OH				1.38E+06	g-moles	S		TRAC	NaOH	1.39E+09	4
BX109	OH				8.75E+05	g-moles	S		TRAC	NaOH	1.32E+09	4
C105	OH				3.28E+07	g-moles	S		TRAC	NaOH	1.31E+09	4
S108	OH				1.24E+06	g-moles	S		TRAC	NaOH	1.31E+09	4
T203	OH				2.36E+04	g-moles	S		TRAC	NaOH	1.25E+09	4
AX104	OH				7.22E+05	g-moles	S		TRAC	NaOH	1.18E+09	4
B204	OH				5.17E+04	g-moles	S		TRAC	NaOH	1.09E+09	4
TX105	OH				4.00E+06	g-moles	S		TRAC	NaOH	1.03E+09	4
SX113	OH				2.52E+01	moles/L	S		HTCE Inv.	NaOH	1.01E+09	4
T107	OH				5.52E+05	g-moles	S		TRAC	NaOH	9.71E+08	4
C110	OH				5.51E+05	g-moles	S		TRAC	NaOH	9.69E+08	4
B102	OH				2.88E+05	g-moles	S		TRAC	NaOH	9.50E+08	4
B103	OH				2.15E+05	g-moles	S		TRAC	NaOH	9.08E+08	4
T104	OH				1.20E+06	g-moles	S		TRAC	NaOH	9.05E+08	4
S107	OH				1.94E+07	g-moles	S		TRAC	NaOH	8.43E+08	4
BX107	OH				5.53E+05	g-moles	S		TRAC	NaOH	8.34E+08	4
SX112	OH				1.11E+07	g-moles	S		TRAC	NaOH	7.97E+08	4
SX107	OH				1.66E+07	g-moles	S		TRAC	NaOH	7.36E+08	4
SX107	OH				1.80E+01	moles/L	S		HTCE Inv.	NaOH	7.20E+08	4
SX108	OH				1.78E+01	moles/L	S		HTCE Inv.	NaOH	7.11E+08	4

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
U110	OH				8.33E+06	g-moles	S		TRAC	NaOH	7.08E+08	4
U201	OH-				1.77E+01	moles/L	S		HTCE Inv.	NaOH	7.08E+08	4
U202	OH-				1.77E+01	moles/L	S		HTCE Inv.	NaOH	7.08E+08	4
U203	OH-				1.77E+01	moles/L	S		HTCE Inv.	NaOH	7.08E+08	4
U204	OH-				1.77E+01	moles/L	S		HTCE Inv.	NaOH	7.08E+08	4
S101	OH				1.23E+07	g-moles	S		TRAC	NaOH	6.56E+08	4
S104	OH-				1.61E+01	moles/L	S		HTCE Inv.	NaOH	6.44E+08	4
C102	OH-				1.61E+01	moles/L	S		HTCE Inv.	NaOH	6.42E+08	4
SX101	OH				1.88E+07	g-moles	S		TRAC	NaOH	6.34E+08	4
C104	OH-				1.54E+01	moles/L	S		HTCE Inv.	NaOH	6.15E+08	4
SX112	OH-				1.53E+01	moles/L	S		HTCE Inv.	NaOH	6.12E+08	4
BY110	OH				2.87E+05	g-moles	S		TRAC	NaOH	6.05E+08	4
C105	OH-				1.49E+01	moles/L	S		HTCE Inv.	NaOH	5.96E+08	4
TY104	OH				2.26E+04	g-moles	S		TRAC	NaOH	5.96E+08	4
SX111	OH-				1.42E+01	moles/L	S		HTCE Inv.	NaOH	5.67E+08	4
T101	OH				5.31E+04	g-moles	S		TRAC	NaOH	5.60E+08	4
C108	OH				2.63E+06	g-moles	S		TRAC	NaOH	5.55E+08	4
SX110	OH-				1.39E+01	moles/L	S		HTCE Inv.	NaOH	5.55E+08	4
S104	OH				1.28E+07	g-moles	S		TRAC	NaOH	5.35E+08	4
C101	OH				3.20E+06	g-moles	S		TRAC	NaOH	5.15E+08	4
SX101	OH-				1.29E+01	moles/L	S		HTCE Inv.	NaOH	5.14E+08	4
S107	OH-				1.24E+01	moles/L	S		HTCE Inv.	NaOH	4.96E+08	4
B202	OH				7.49E+04	g-moles	S		TRAC	NaOH	4.94E+08	4
C103	OH-				1.17E+01	moles/L	S		HTCE Inv.	NaOH	4.68E+08	4
BY112	OH				7.63E+06	g-moles	S		TRAC	NaOH	4.47E+08	4
S101	OH-				1.09E+01	moles/L	S		HTCE Inv.	NaOH	4.35E+08	4
U107	OH-				1.05E+01	moles/L	S		HTCE Inv.	NaOH	4.22E+08	4
TX109	OH				1.81E+06	g-moles	S		TRAC	NaOH	3.90E+08	4
SX106	OH-				9.42E+00	moles/L	S		HTCE Inv.	NaOH	3.77E+08	4
A105	OH-				9.04E+00	moles/L	S		HTCE Inv.	NaOH	3.62E+08	4
AX104	OH-				9.04E+00	moles/L	S		HTCE Inv.	NaOH	3.62E+08	4
SX104	OH				1.37E+07	g-moles	S		TRAC	NaOH	3.45E+08	4
SX115	OH-				8.60E+00	moles/L	S		HTCE Inv.	NaOH	3.44E+08	4
U105	OH-				8.26E+00	moles/L	S		HTCE Inv.	NaOH	3.30E+08	4
SX109	OH-				8.13E+00	moles/L	S		HTCE Inv.	NaOH	3.25E+08	4
BY108	OH				3.99E+05	g-moles	S		TRAC	NaOH	3.24E+08	4
C101	OH-				7.96E+00	moles/L	S		HTCE Inv.	NaOH	3.18E+08	4
C108	OH				1.78E+08	g-moles	S		TRAC	NaOH	3.14E+08	4
U111	OH-				7.81E+00	moles/L	S		HTCE Inv.	NaOH	3.12E+08	4
S102	OH-				7.77E+00	moles/L	S		HTCE Inv.	NaOH	3.11E+08	4
BX112	OH				9.32E+05	g-moles	S		TRAC	NaOH	2.98E+08	4

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L
					Value	Unit					
SX114	OH-				7.38E+00	moles/L	S		HTCE Inv.	NaOH	2.95E+08
C106	OH-				7.32E+00	moles/L	S		HTCE Inv.	NaOH	2.93E+08
S102	OH				5.12E+06	g-moles	S		TRAC	NaOH	2.92E+08
B101	OH				2.63E+05	g-moles	S		TRAC	NaOH	2.92E+08
SX111	OH				1.12E+07	g-moles	S		TRAC	NaOH	2.92E+08
SX102	OH				2.19E+07	g-moles	S		TRAC	NaOH	2.71E+08
SX109	OH				9.99E+06	g-moles	S		TRAC	NaOH	2.70E+08
BX110	OH				1.50E+06	g-moles	S		TRAC	NaOH	2.68E+08
U108	OH-				6.66E+00	moles/L	S		HTCE Inv.	NaOH	2.67E+08
U109	OH-				6.58E+00	moles/L	S		HTCE Inv.	NaOH	2.63E+08
S103	OH-				6.19E+00	moles/L	S		HTCE Inv.	NaOH	2.47E+08
U112	OH-				6.05E+00	moles/L	S		HTCE Inv.	NaOH	2.42E+08
BX101	OH-				6.02E+00	moles/L	S		HTCE Inv.	NaOH	2.41E+08
S110	OH-				5.91E+00	moles/L	S		HTCE Inv.	NaOH	2.38E+08
A101	OH				6.00E+06	g-moles	S		TRAC	NaOH	2.32E+08
Preliminary ASA Value: 2.32E+08 ug/L											
SX104	OH-				5.71E+00	moles/L	S		HTCE Inv.	NaOH	2.28E+08
C103	OH				1.90E+07	g-moles	S		TRAC	NaOH	2.19E+08
TX114	OH				8.30E+04	g-moles	S		TRAC	NaOH	2.19E+08
C111	OH-				5.42E+00	moles/L	S		HTCE Inv.	NaOH	2.17E+08
ASA Value: 2.08E+08 ug/L											
S108	OH	12/16/74	T-8035	1.541	5.20E+00	M	S		RAW	NaOH	2.08E+08
S111	OH	12/16/74	T-8141	1.795	5.16E+00	M	S		RAW	NaOH	2.08E+08
T108	OH				6.00E+04	g-moles	S		TRAC	NaOH	1.98E+08
BX103	OH-				4.92E+00	moles/L	S		HTCE Inv.	NaOH	1.97E+08
BX102	OH-				4.86E+00	moles/L	S		HTCE Inv.	NaOH	1.95E+08
BX103	OH				1.33E+07	g-moles	S		TRAC	NaOH	1.83E+08
B101	OH-				4.57E+00	moles/L	S		HTCE Inv.	NaOH	1.83E+08
S112	OH	12/9/74	T-8122	1.591	4.54E+00	M	S		RAW	NaOH	1.82E+08
S102	OH	5/13/74	T-3601	1.284	4.52E+00	M	S		RAW	NaOH	1.81E+08
SX108	OH				7.57E+06	g-moles	S		TRAC	NaOH	1.80E+08
U103	OH-				4.47E+00	moles/L	S		HTCE Inv.	NaOH	1.79E+08
B107	OH				5.52E+05	g-moles	S		TRAC	NaOH	1.77E+08
SX103	OH-				4.32E+00	moles/L	S		HTCE Inv.	NaOH	1.73E+08
SX102	OH-				4.23E+00	moles/L	S		HTCE Inv.	NaOH	1.69E+08
S111	OH-				4.11E+00	moles/L	S		HTCE Inv.	NaOH	1.64E+08
S107	OH-	10/16/78	4251	1.525	4.02E+00	M	A	Salt Well	RAW	NaOH	1.61E+08
AX102	OH-				3.99E+00	moles/L	S		HTCE Inv.	NaOH	1.60E+08
TX114	NaOH	2/10/81		1.431	3.93E+00	M	S		RAW	NaOH	1.57E+08
A101	OH	9/22/80	4493	1.449	3.874	moles/l	G	Sludge	Braun	NaOH	1.55E+08

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
SX114	OH				7.79E+06	g-moles	S		TRAC	NaOH	1.49E+08	
TX101	OH				4.16E+06	g-moles	S		TRAC	NaOH	1.46E+08	
C112	OH-				3.64E+00	moles/L	S		HTCE Inv.	NaOH	1.46E+08	
S101	OH	11/19/75	T-9715	1.51	3.60E+00	M	D	Suspended Solids	RAW	NaOH	1.44E+08	
S101	OH	11/19/75	T-9715	1.51	3.6	moles/l	G	Sludge	Braun	NaOH	1.44E+08	
U102	OH-				3.58E+00	moles/L	S		HTCE Inv.	NaOH	1.43E+08	
A101	NaOH	11/11/80		1.85	3.51E+00	M	R	Total Slurry	RAW	NaOH	1.40E+08	
A101	OH	11/11/80	RAT-A101-5A	1.85	3.51	moles/l	Y	Slurry	Braun	NaOH	1.40E+08	
SX105	OH				1.19E+06	g-moles	S		TRAC	NaOH	1.40E+08	
TX110	OH				1.80E+05	g-moles	S		TRAC	NaOH	1.36E+08	
TX118	OH	2/24/77	T-1205	1.31	3.36E+00	M	S	amber	RAW	NaOH	1.34E+08	
BY101	OH				1.32E+06	g-moles	S		TRAC	NaOH	1.34E+08	
A104	OH-				3.29E+00	moles/L	S		HTCE Inv.	NaOH	1.31E+08	
SX105	OH-				3.25E+00	moles/L	S		HTCE Inv.	NaOH	1.30E+08	
TX118	NaOH (M)	1/28/80		1.341	3.22E+00	M	S	24" depth, green solids	RAW	NaOH	1.29E+08	
S110	OH	12/17/74		1.536	3.19E+00	M	S		RAW	NaOH	1.28E+08	
C204	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
BX104	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
BX105	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
BX106	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
C201	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
C202	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
C203	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
U101	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
U104	OH-				3.06E+00	moles/L	S		HTCE Inv.	NaOH	1.22E+08	
S102	OH	10/21/75	T-9049	1.48	3.02E+00	M	S		RAW	NaOH	1.21E+08	
A102	OH-				3.01E+00	moles/L	S		HTCE Inv.	NaOH	1.20E+08	
S106	OH-				3.01E+00	moles/L	S		HTCE Inv.	NaOH	1.20E+08	
A101	OH-				2.97E+00	moles/L	S		HTCE Inv.	NaOH	1.19E+08	
TX105	OH	1/21/74	T-805		2.96E+00	M	O	green	RAW	NaOH	1.18E+08	
BY103	OH				1.18E+07	g-moles	S		TRAC	NaOH	1.16E+08	
S102	OH	12/17/74	T-8008	1.42	2.89E+00	M	S		RAW	NaOH	1.16E+08	
TX103	OH	1/2/75	T-1137	1.536	2.86E+00	M	G	50% sludge	RAW	NaOH	1.14E+08	
TX103	OH	1/2/75	T-1137	1.536	2.86	moles/l	S	Supernate/Solids	Braun	NaOH	1.14E+08	
SX102	NaOH	5/9/75		1.3	2.85E+00	mol/l	S	Solids	RAW	NaOH	1.14E+08	
BY109	OH				4.15E+06	g-moles	S		TRAC	NaOH	1.14E+08	
A106	OH-				2.83E+00	moles/L	S		HTCE Inv.	NaOH	1.13E+08	
TX112	OH	1/21/74	T-832		2.80	M	O	green, 90% sludge	RAW	NaOH	1.12E+08	
BY102	OH				4.60E+06	g-moles	S		TRAC	NaOH	1.10E+08	
SX102	NaOH	4/28/75		1.88	2.71E+00	mol/l	S	Solids	RAW	NaOH	1.08E+08	
SX102	OH	4/18/75	RAT-SX102-1	1.88	2.71	moles/l	S	Supernate/Solids	Braun	NaOH	1.08E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analyses
Sodium Hydroxide Single-Shell Tank Solids (Sketch ES-VAL-CC30)
ASA Value: 2.08E+08 ug/L

Tank Waste Characterization Sample Information									
Tank	Reported	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source
Chemical	Reported	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source
ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S102	NaOH	4/4/75	T-3328	1.34	2.69E+00	M	D	Suspended solids	RAW
TX106	NaOH	2/10/81		1.495	2.66E+00	M	1.0		RAW
TY101	OH				6.37E+05	g-moles	S		TRAC
S102	OH	10/15/75	T-8864	1.436	2.62E+00	M	S		RAW
S102	OH	10/15/75	T-8864	1.436	2.62E+00	moles/l	G	Sludge	Braun
S107	OH	7/10/78			2.60E+00	M	S	Concentrate	RAW
TX103	OH	4/9/76	T-4138	1.43	2.60E+00	M	D	greenish yellow, suspended solid	RAW
B109	OH				2.54E+00	moles/L	S		HTCE Inv.
TX102	OH	2/3/81	RAT-TX102-1	1.446	2.52	moles/l	S	Supernatant/Solids	Braun
BY112	OH	4/4/72			9.62E+01	g/L	G	Sludge	Wastren
S101	OH	11/19/75			6.12E+01	g/L	G	Sludge	Wastren
TX102	OH	2/3/81			4.29E+01	g/L	G	Sludge	Wastren
Preliminary ASA Value: 9.90E+07 ug/L									
S106	NaOH	6/4/75			9.86E+01	g/L	G	Sludge	Wastren
S106	NaOH	6/4/75	RAT-S106-2	1.59	6.2	wt. %	S	Solids	Braun
U111	OH	9/23/80			9.85E+01	g/L	G	Sludge	Wastren
A101	NaOH	11/10/80		1.58	2.45E+00	M	R	Total Slurry	RAW
A101	NaOH	11/10/80		1.65	2.45E+00	M	R	Total Slurry	RAW
A101	OH	11/10/80	RAT-A101-9A	1.58	2.45	moles/l	Y	Slurry	Braun
A101	OH	11/10/80	RAT-A101-4A	1.65	2.45	moles/l	Y	Slurry	Braun
TX118	OH	2/11/74	T-1944	1.471	2.43E+00	M	S	green	RAW
TX118	OH	2/11/74	T-1944	1.47	2.43	moles/l	G	Sludge	Braun
BY112	OH	11/11/75	T-9697	1.42	2.42E+00	M	D	Suspended Solids	RAW
S108	NaOH	7/8/74	RAT-S108-5	1.495	6.3	wt. %	S	Solids	Braun
TX118	OH	5/23/74	T-4333	1.532	2.34E+00	M	O	murky green, 50% solids	RAW
TX118	OH	5/23/74	T-4333	1.53	2.34	moles/l	G	Sludge	Braun
SX105	OH	12/12/75	T-377	1.5	2.32	M	S		RAW
TX109	NaOH	5/20/75		1.485	2.32E+00	M	G	reddish-brown sludge	RAW
SX105	OH	12/12/75	T-377	1.5	2.32	moles/l	S	Solids	Braun
AX101	OH				2.30E+00	moles/L	S		HTCE Inv.
TX118	OH	2/26/74	T-2453	1.491	2.29E+00	M	O	dark green	RAW
TX118	OH	2/26/74	T-2453	1.49	2.29	moles/l	G	Sludge	Braun
TX118	OH	2/10/75	T-1542		2.28E+00	M	O	green, 50% solids	RAW
BY104	OH				5.10E+05	g-moles	S		TRAC
SX107	OH	1/29/77	1345	1.33	6.8	wt. %	A	Salts	Braun
U111	OH	9/23/80	RAT-U111-2		5.63	wt. %	Y	Slurry	Braun

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
S102	OH	12/28/75	T-1018	1.4	2.22E+00	M	D	Suspended Solids	RAW	NaOH	8.88E+07
SX102	OH-	9/3/80			3.76E+01	g/L	K	Saltcake	Wastren	NaOH	8.85E+07
SX102	OH	9/3/80	T-2959	1.555	2.21	moles/l	S	Supernate/Solids	Braun	NaOH	8.84E+07
S105	OH				1.25E+08	g-moles	S		TRAC	NaOH	8.79E+07
T105	OH				9.33E+05	g-moles	S		TRAC	NaOH	8.79E+07
S108	OH-				2.19E+00	moles/L	S		HTCE Inv.	NaOH	8.78E+07
BX105	OH				4.40E+08	g-moles	S		TRAC	NaOH	8.78E+07
S112	OH-				2.19E+00	moles/L	S		HTCE Inv.	NaOH	8.74E+07
TX103	OH	1/21/74	T-817		2.18E+00	M	G	90% sludge	RAW	NaOH	8.72E+07
TX103	OH	1/21/74	T-817		2.18	moles/l	G	Sludge	Braun	NaOH	8.72E+07
TX118	OH	2/27/74	T-2608	1.476	2.15E+00	M	O	green, 85% solids	RAW	NaOH	8.60E+07
TX118	OH	2/27/74	T-2608	1.48	2.15	moles/l	G	Sludge	Braun	NaOH	8.60E+07
U108	OH-				2.13E+00	moles/L	S		HTCE Inv.	NaOH	8.53E+07
BX105	OH	2/11/78	T-2325	1.369	2.11	moles/l	G	Sludge	Braun	NaOH	8.44E+07
U111	OH	9/23/80	RAT-U111-3		5.17	wt. %	Y	Slurry	Braun	NaOH	8.27E+07
S105	OH-				2.06E+00	moles/L	S		HTCE Inv.	NaOH	8.24E+07
S102	OH	1/5/78	T-1193	1.4	2.08E+00	M	D	Suspended Solids	RAW	NaOH	8.24E+07
S102	OH	11/5/75	T-9515	1.41	2.00E+00	M	D	Suspended Solids	RAW	NaOH	8.00E+07
B111	OH-				2.00E+00	moles/L	S		HTCE Inv.	NaOH	7.99E+07
S102	OH	8/5/75	T-6806	1.32	1.98E+00	M	S		RAW	NaOH	7.92E+07
TX118	OH	5/29/75	T-4900	1.2	1.98E+00	M	S	brown	RAW	NaOH	7.92E+07
S102	OH	7/7/75	T-5859	1.37	1.89E+00	M	S	-----	RAW	NaOH	7.58E+07
S102	OH	7/7/75	T-5859	1.37	1.89	moles/l	G	Sludge	Braun	NaOH	7.58E+07
S102	OH	4/2/75	T-3259	1.24	1.87E+00	M	D	Suspended solids	RAW	NaOH	7.48E+07
BX109	OH-				1.87E+00	moles/L	S		HTCE Inv.	NaOH	7.47E+07
BX106	OH				7.37E+06	g-moles	S		TRAC	NaOH	7.20E+07
TX102	NaOH	2/10/81		1.44	1.80E+00	M	O	saltwell samples, 55% solids	RAW	NaOH	7.20E+07
C108	OH-				1.78E+00	moles/L	S		HTCE Inv.	NaOH	7.10E+07
C109	OH-				1.68E+00	moles/L	S		HTCE Inv.	NaOH	6.73E+07
S102	OH	12/5/75	T-378	1.39	1.68E+00	M	D	Suspended Solids	RAW	NaOH	6.64E+07
SX115	OH				1.32E+06	g-moles	S		TRAC	NaOH	6.63E+07
C107	OH-				1.65E+00	moles/L	S		HTCE Inv.	NaOH	6.59E+07
BY103	OH-				1.64E+00	moles/L	S		HTCE Inv.	NaOH	6.58E+07
U110	OH-				1.62E+00	moles/L	S		HTCE Inv.	NaOH	6.49E+07
TX113	OH				7.71E+05	g-moles	S		TRAC	NaOH	6.41E+07
BY112	OH	4/4/72	RAT-BY112-3	1.44	4.4	wt. %	S	Solids	Braun	NaOH	6.34E+07
U108	OH				7.40E+05	g-moles	S		TRAC	NaOH	6.30E+07
S102	OH	7/9/75	T-5964	1.35	1.57E+00	M	D	Suspended Solids	RAW	NaOH	6.28E+07
B110	OH-				1.55E+00	moles/L	S		HTCE Inv.	NaOH	6.22E+07
B107	OH-				1.55E+00	moles/L	S		HTCE Inv.	NaOH	6.20E+07
BX107	OH-				1.55E+00	moles/L	S		HTCE Inv.	NaOH	6.20E+07

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BX108	OH-				1.55E+00	moles/L	S		HTCE Inv.	NaOH	6.20E+07	
C110	OH-				1.55E+00	moles/L	S		HTCE Inv.	NaOH	6.20E+07	
S102	OH	1/7/76	T-1330	1.38	1.53E+00	M	D	Suspended Solids	RAW	NaOH	6.12E+07	
S102	OH (-)	11/16/73	459	1.29	1.51E+00	M	S	Solids	RAW	NaOH	6.04E+07	
BX110	OH-				1.49E+00	moles/L	S		HTCE Inv.	NaOH	5.97E+07	
U107	OH				5.62E+03	g-moles	S		TRAC	NaOH	5.93E+07	
BY101	OH-				1.45E+00	moles/L	S		HTCE Inv.	NaOH	5.78E+07	
SX108	OH	4/18/78	8301	1.37	4.2	wt. %	S	Supernate/Solids	Braun	NaOH	5.75E+07	
AX103	OH-				1.44E+00	moles/L	S		HTCE Inv.	NaOH	5.75E+07	
S112	NaOH	11/15/74	RAT-S112-1	1.304	4.4	wt. %	A	Salts	Braun	NaOH	5.74E+07	
BY109	OH-				1.43E+00	moles/L	S		HTCE Inv.	NaOH	5.71E+07	
U203	OH-	12/4/78			2.40E+01	g/L	G	Sludge	Wastren	NaOH	5.65E+07	
SX106	OH	4/18/78	8301	1.33	4.2	wt. %	S	Supernate/Solids	Braun	NaOH	5.59E+07	
BY105	OH-				1.39E+00	moles/L	S		HTCE Inv.	NaOH	5.57E+07	
B112	OH-				1.38E+00	moles/L	S		HTCE Inv.	NaOH	5.51E+07	
BY111	OH-				1.38E+00	moles/L	S		HTCE Inv.	NaOH	5.50E+07	
BY102	OH-				1.37E+00	moles/L	S		HTCE Inv.	NaOH	5.49E+07	
S112	NaOH	11/15/74			5.47E+01	g/L	K	Saltcake	Wastren	NaOH	5.47E+07	
A104	OH				1.49E+08	g-moles	S		TRAC	NaOH	5.46E+07	
BY104	OH-				1.35E+00	moles/L	S		HTCE Inv.	NaOH	5.41E+07	
S102	OH	1/20/76	T-1683	1.39	1.33E+00	M	D	Suspended Solids	RAW	NaOH	5.32E+07	
BY112	OH-				1.33E+00	moles/L	S		HTCE Inv.	NaOH	5.31E+07	
BY107	OH-				1.33E+00	moles/L	S		HTCE Inv.	NaOH	5.31E+07	
BX111	OH-				1.32E+00	moles/L	S		HTCE Inv.	NaOH	5.27E+07	
BX112	OH-				1.29E+00	moles/L	S		HTCE Inv.	NaOH	5.17E+07	
BY110	OH-				1.29E+00	moles/L	S		HTCE Inv.	NaOH	5.17E+07	
BY106	OH-				1.28E+00	moles/L	S		HTCE Inv.	NaOH	5.12E+07	
BY108	OH-				1.27E+00	moles/L	S		HTCE Inv.	NaOH	5.08E+07	
SX103	OH				4.87E+06	g-moles	S		TRAC	NaOH	5.04E+07	
A102	OH				1.39E+06	g-moles	S		TRAC	NaOH	4.99E+07	
B104	OH-				1.24E+00	moles/L	S		HTCE Inv.	NaOH	4.97E+07	
S105	NaOH	3/1/74	RAT-S105-2	1.38	0.036	gm/gm	S	Solids	Braun	NaOH	4.97E+07	
S102	OH	11/5/73		1.23	1.22E+00	M	S	Solids	RAW	NaOH	4.88E+07	
S102	OH	11/19/75	T-9952	1.29	1.20E+00	M	D	Suspended Solids	RAW	NaOH	4.80E+07	
B102	OH-				1.16E+00	moles/L	S		HTCE Inv.	NaOH	4.63E+07	
U105	OH-	12/4/78			1.94E+01	g/L	K	Saltcake	Wastren	NaOH	4.56E+07	
TX118	OH	4/23/75	T-3262	1.24	1.08E+00	M	S	dark brown	RAW	NaOH	4.32E+07	
T111	OH				2.08E+06	g-moles	S		TRAC	NaOH	4.14E+07	
TY105	OH				1.95E+04	g-moles	S		TRAC	NaOH	4.11E+07	
T112	OH				2.45E+06	g-moles	S		TRAC	NaOH	4.08E+07	
U111	OH				6.54E+05	g-moles	S		TRAC	NaOH	3.86E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State		Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code				Analyte	ug/L	
C109	OH				1.29E+04	g-moles	S			TRAC	NaOH	3.78E+07	
B201	OH-	12/4/78			1.58E+01	g/L	G	Sludge		Wastren	NaOH	3.72E+07	
SX110	OH				2.32E+06	g-moles	S			TRAC	NaOH	3.53E+07	
AX103	OH (-)	3/14/79	7595		8.56E-01	M	R	Slurry		RAW	NaOH	3.42E+07	
S111	OH	8/25/78	1003/1004-C	1.86	1.8	wt. %	S	Solids		Braun	NaOH	3.35E+07	
BX104	OH				1.66E+06	g-moles	S			TRAC	NaOH	3.31E+07	
TX108	OH	1/21/74	T-856	1.403	0.789	M	O	clear yellow crystals		RAW	NaOH	3.16E+07	
S108	OH				1.40E+05	g-moles	S			TRAC	NaOH	3.14E+07	
B104	OH				8.90E+05	g-moles	S			TRAC	NaOH	3.05E+07	
B108	OH-				7.08E-01	moles/L	S			HTCE Inv.	NaOH	2.83E+07	
SX101	OH	12/4/78	4523	1.76	1.6	wt. %	A	Salts		Braun	NaOH	2.82E+07	
SX104	OH	2/14/77	RAT-SX104-2	1.39	2	wt. %	A	Salts		Braun	NaOH	2.78E+07	
B112	OH				2.11E+05	g-moles	S			TRAC	NaOH	2.71E+07	
S111	OH-	9/18/80			1.14E+01	g/L	G	Sludge		Wastren	NaOH	2.68E+07	
B110	OH				1.47E+06	g-moles	S			TRAC	NaOH	2.63E+07	
AX103	OH (-)	8/6/79			6.56E-01	M	S			RAW	NaOH	2.62E+07	
T110	OH				1.30E+06	g-moles	S			TRAC	NaOH	2.58E+07	
TX111	OH				2.42E+04	g-moles	S			TRAC	NaOH	2.56E+07	
S109	NaOH	8/19/74	RAT-S109-3	1.1	2.3	wt. %	A	Salts		Braun	NaOH	2.53E+07	
A101	OH	8/22/80	T-2692	1.302	6.12E-01	moles/L	I			RAW	NaOH	2.45E+07	
C203	OH				4.61E+01	g-moles	S			TRAC	NaOH	2.43E+07	
SX101	OH	12/4/78	4523	1.52	1.6	wt. %	A	Salts		Braun	NaOH	2.43E+07	
A101	OH	8/22/80	T-2691	1.281	6.03E-01	moles/L	I			RAW	NaOH	2.41E+07	
SX113	OH				6.30E+05	g-moles	S			TRAC	NaOH	2.37E+07	
B201	OH-				5.56E-01	moles/L	S			HTCE Inv.	NaOH	2.22E+07	
B202	OH-				5.56E-01	moles/L	S			HTCE Inv.	NaOH	2.22E+07	
B203	OH-				5.56E-01	moles/L	S			HTCE Inv.	NaOH	2.22E+07	
B204	OH-				5.56E-01	moles/L	S			HTCE Inv.	NaOH	2.22E+07	
TY102	OH				2.09E+04	g-moles	S			TRAC	NaOH	2.20E+07	
TY105	OH Free	9/27/85		1.53	5.33E-01	M	I	core composite		RAW	NaOH	2.13E+07	
A101	OH	11/2/79	RAT-A101-7A	1.052	0.518	moles/l	Y	Slurry		Braun	NaOH	2.07E+07	
SX102	NaOH	3/18/76	RAT-SX102-3	1.829	1.1	wt. %	A	Salts		Braun	NaOH	2.01E+07	
U105	OH	12/4/78	RAT-U105-3	1.62	1.2	wt. %	A	Salts		Braun	NaOH	1.94E+07	
C103	OH	5/1/75	T-4073	1.16	4.58E-01	M	S			RAW	NaOH	1.83E+07	
T112	NaOH Free	9/24/65		1.03	4.50E-01	N	G	sludge		RAW	NaOH	1.80E+07	
TX118	OH	1/28/80	RAT-TX118-1	1.341	1.3	wt. %	S	Solids		Braun	NaOH	1.74E+07	
U103	OH-	12/4/78			7.00E+00	g/L	G	Sludge		Wastren	NaOH	1.65E+07	
S111	NaOH	5/29/74	RAT-S111-2	1.348	1.22	wt. %	G	Sludge		Braun	NaOH	1.64E+07	
TX118	OH	2/3/77	RAT-TX118-1	1.26	1.3	wt. %	S	Solids		Braun	NaOH	1.64E+07	
B111	OH				8.43E+05	g-moles	S			TRAC	NaOH	1.63E+07	
SX114	NaOH	12/3/62			4.00E-01	M	G	Sludge		RAW	NaOH	1.60E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information													Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID		
T108	OH				1.07E+05	g-moles	S		TRAC	NaOH	1.58E+07			
U204	OH-	12/4/78			6.55E+00	g/L	G	Sludge	Wastren	NaOH	1.54E+07			
B103	OH-				3.75E-01	moles/L	S		HTCE Inv.	NaOH	1.50E+07			
A103	OH-				3.73E-01	moles/L	S		HTCE Inv.	NaOH	1.49E+07			
SX103	NaOH	3/18/76	RAT-SX103-2	1.601	0.9	wt. %	A	Salts	Braun	NaOH	1.44E+07			
B105	OH-				3.49E-01	moles/L	S		HTCE Inv.	NaOH	1.40E+07			
TY104	NaOH Free	9/24/65		1.045	3.23E-01	N	G	sludge	RAW	NaOH	1.29E+07			
S106	NaOH	8/23/74	RAT-S106-4	1.27	1	wt. %	A	Salts	Braun	NaOH	1.27E+07			
S111	OH	8/25/78	1001-C	1.27	1	wt. %	S	Solids	Braun	NaOH	1.27E+07			
SX105	OH-	2/1/77			5.30E+00	g/L	K	Saltcake	Wastren	NaOH	1.25E+07			
U109	NaOH	11/12/75	RAT-U109-1	1.24	1	wt. %	G	Sludge	Braun	NaOH	1.24E+07			
S107	OH	11/16/73	T-476	1.157	2.92E-01	M	S		RAW	NaOH	1.17E+07			
SX101	NaOH	11/13/74	RAT-SX101-3	1.65	0.7	wt. %	A	Salts	Braun	NaOH	1.16E+07			
U109	NaOH	11/12/75			1.05E+01	g/L	G	Sludge	Wastren	NaOH	1.05E+07			
U109	NaOH	11/12/75	RAT-U109-1	1.05	1	wt. %	G	Sludge	Braun	NaOH	1.05E+07			
S111	OH	9/18/80	RAT-S111-5		0.651	wt. %	S	Solids	Braun	NaOH	1.04E+07			
B105	OH				9.53E+04	g-moles	S		TRAC	NaOH	1.02E+07			
SX101	OH	7/14/80	T-1013		2.53E-01	moles/liter	S		RAW	NaOH	1.01E+07			
TX118	OH	4/12/74	T-3392	1.438	2.43E-01	M	O	yellow, cloudy, 50% solids	RAW	NaOH	9.72E+06			
TX118	OH	4/12/74	T-3392	1.44	0.243	moles/l	G	Sludge	Braun	NaOH	9.72E+06			
TY103	NaOH Free	3/15/65		1.182	2.38E-01	N	K	saltcake	RAW	NaOH	9.52E+06			
B106	OH-				2.31E-01	moles/L	S		HTCE Inv.	NaOH	9.23E+06			
S109	OH-	12/8/76			3.81E+00	g/L	K	Saltcake	Wastren	NaOH	8.96E+06			
BX111	OH				4.06E+04	g-moles	S		TRAC	NaOH	8.93E+06			
S112	OH				1.17E+06	g-moles	S		TRAC	NaOH	8.88E+06			
S111	OH	8/25/78	1009-C	1.46	0.6	wt. %	S	Solids	Braun	NaOH	8.76E+06			
S111	OH	8/25/78	1009-C	1.44	0.6	wt. %	S	Solids	Braun	NaOH	8.64E+06			
T111	OH	9/24/74	T-4893	1.02	2.06E-01	M	S	black	RAW	NaOH	8.24E+06			
B201	OH	12/4/78	1898	1.37	0.6	wt. %	G	Sludge	Braun	NaOH	8.22E+06			
SX108	NaOH	11/1/79	-4379 T-4382 T-438	1.11	1.83E-01	M	I	Composite	RAW	NaOH	7.32E+06			
U103	OH	12/4/78	3064	1.4	0.5	wt. %	S	Solids	Braun	NaOH	7.00E+06			
TX115	OH				1.19E+04	g-moles	S		TRAC	NaOH	6.96E+06			
T107	NaOH Free	9/24/65		1.204	1.64E-01	N	G	sludge	RAW	NaOH	6.56E+06			
U204	OH	12/4/78	RAT-U204-1	1.31	0.5	wt. %	S	Solids	Braun	NaOH	6.55E+06			
TY106	OH				4.20E+03	g-moles	S		TRAC	NaOH	6.52E+06			
B108	OH				5.98E+04	g-moles	S		TRAC	NaOH	6.33E+06			
S105	NaOH	8/23/74			6.31E+00	g/L	G	Sludge	Wastren	NaOH	6.31E+06			
S105	NaOH	8/23/74	RAT-S105-6	1.261	0.5	wt. %	S	Solids	Braun	NaOH	6.31E+06			
C201	OH	12/4/78	T-3421	1.16	0.5	wt. %	G	Sludge	Braun	NaOH	5.80E+06			
U112	OH				7.29E+04	g-moles	S		TRAC	NaOH	5.74E+06			
S111	OH	12/27/76	RAT-S111-4	1.41	0.4	wt. %	A	Salts	Braun	NaOH	5.64E+06			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
S111	NaOH	8/21/74		1.704	1.37E-01	M	A	Salts	RAW	NaOH	5.48E+06	
B203	OH	12/4/78	2782	1.09	0.5	wt. %	G	Sludge	Braun	NaOH	5.45E+06	
U111	NaOH	8/14/75	RAT-U111-1	0.908	0.6	wt. %	G	Sludge	Braun	NaOH	5.45E+06	
TY104	OH-	8/16/85			2.31E+00	g/L	G	Sludge	Wastren	NaOH	5.44E+06	
TX112	OH				2.57E+03	g-moles	S		TRAC	NaOH	5.41E+06	
SX105	OH	2/1/77	RAT-SX105-2	1.06	0.5	wt. %	A	Salts	Braun	NaOH	5.30E+06	
B109	OH				3.09E+04	g-moles	S		TRAC	NaOH	5.23E+06	
S110	NaOH	4/23/75			4.60E+00	g/L	K	Saltcake	Wastren	NaOH	4.60E+06	
S110	NaOH	4/23/75	RAT-S110-3	1.9	0.115	moles/l	A	Salts	Braun	NaOH	4.60E+06	
C202	OH				8.57E+01	g-moles	S		TRAC	NaOH	4.00E+06	
B106	OH				2.12E+04	g-moles	S		TRAC	NaOH	3.87E+06	
S109	OH	12/8/76	RAT-S109-1	1.27	0.3	wt. %	A	Salts	Braun	NaOH	3.81E+06	
TY104	OH	8/6/85	232S0000	1.85	1580	ugm/gm	G	Sludge/Composite	Braun	NaOH	2.92E+06	
B204	OH-	12/4/78			1.14E+00	g/L	G	Sludge	Wastren	NaOH	2.68E+06	
TY104	OH Free	8/6/85	261SXXXX	1.48	1.56E+03	ug/g	I	core composite	RAW	NaOH	2.31E+06	
TY104	OH	8/16/85	261S0000	1.48	1560	ugm/gm	G	Sludge/Composite	Braun	NaOH	2.31E+06	
S109	OH				1.40E+05	g-moles	S		TRAC	NaOH	2.26E+06	
TY104	OH Free	8/6/85	241SXXXX	1.77	1.24E+03	ug/g	I	core composite	RAW	NaOH	2.19E+06	
TY104	OH	8/6/85	241S0000	1.77	1240	ugm/gm	G	Sludge/Composite	Braun	NaOH	2.19E+06	
C204	OH	12/4/78	T-1914	1.07	0.2	wt. %	G	Sludge	Braun	NaOH	2.14E+06	
T204	OH	12/4/78	1914	1.07	0.2	wt. %	G	Sludge	Braun	NaOH	2.14E+06	
S103	OH				1.40E+05	g-moles	S		TRAC	NaOH	2.04E+06	
S106	NaOH	8/21/74		1.27	3.26E-02	M	S	yellow crystals	RAW	NaOH	1.30E+06	
TY104	OH Free	8/6/85	251SXXXX	1.66	7.78E+02	ug/g	I	core composite	RAW	NaOH	1.29E+06	
TY104	OH	8/14/85	251S0000	1.66	778	ugm/gm	G	Sludge/Composite	Braun	NaOH	1.29E+06	
B204	OH	12/4/78	1974	1.14	0.1	wt. %	G	Sludge	Braun	NaOH	1.14E+06	
S105	NaOH	8/21/74		1.26	1.26E-02	M	A	Salt	RAW	NaOH	5.04E+05	
TX118	OH				8.63E+04	g-moles	S		TRAC	NaOH	4.16E+05	
TY104	OH Free	9/1/85	232SXXXX	1.85	1.00E-02	M	I	core composite	RAW	NaOH	4.00E+05	
TX102	OH				5.12E+02	g-moles	S		TRAC	NaOH	3.86E+05	
TY103	OH Free	9/1/85	31XCXXXX	1.7	1.68E+02	ug/g	I	Core composite	RAW	NaOH	2.86E+05	
TY103	OH	8/21/85	31XC0000	1.7	168	ugm/gm	G	Sludge/Composite	Braun	NaOH	2.86E+05	
TX117	OH				6.41E+03	g-moles	S		TRAC	NaOH	2.65E+05	
TX116	OH				4.84E+03	g-moles	S		TRAC	NaOH	2.02E+05	
TY103	OH Free	9/1/85	32XCXXXX	1.7	8.68E+01	ug/g	I	Core composite	RAW	NaOH	1.48E+05	
TY103	OH	8/21/85	32XC0000	1.7	86.8	ugm/gm	G	Sludge/Composite	Braun	NaOH	1.48E+05	
U101	OH				7.85E+02	g-moles	S		TRAC	NaOH	1.34E+05	
TX108	OH				8.17E+02	g-moles	S		TRAC	NaOH	1.28E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
U108	NaOH	8/14/75			8.98E-02	g/L	K	Saltcake	Wastren	NaOH	8.98E+04	
U108	NaOH	8/14/75	RAT-U108-1	0.898	0.01	wt. %	G	Sludge	Braun	NaOH	8.98E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Single-Shell Tank Solids [Sketch ES-VAL-CC30]
 ASA Value: 2.08E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State		Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code				Analyte	ug/L	
SX103	OH	9/17/76	RAT-SX103-3	0.84	0.009	wt. %	A	Salts		Braun	NaOH	7.56E+04	
U103	OH				2.96E+02	g-moles	S			TRAC	NaOH	2.72E+04	
U202	OH				1.59E+01	g-moles	S			TRAC	NaOH	1.10E+04	
U203	OH				1.48E+01	g-moles	S			TRAC	NaOH	1.07E+04	
U201	OH				1.73E+01	g-moles	S			TRAC	NaOH	1.08E+04	
TY102	OH-	9/9/85			9.59E-04	g/L	K	Saltcake		Wastren	NaOH	2.26E+03	
TY105	OH-	9/13/85			8.15E-04	g/L	G	Sludge		Wastren	NaOH	1.92E+03	
TY106	OH	7/31/85	111C0000	1.31	1.31	ugm/gm	G	Sludge/Composite		Braun	NaOH	1.72E+03	
TY106	OH Free	9/4/85		1.31	1.31E+00	ug/g	I	core composite		RAW	NaOH	1.71E+03	
TY102	OH Free	1/30/86	41XCXXXX	1.88	5.10E-01	ug/g	I	Core composite		RAW	NaOH	9.59E+02	
TY102	OH	9/9/85	41XC0000	1.88	0.51	ugm/gm	G	Sludge/Composite		Braun	NaOH	9.59E+02	
TY105	OH	9/13/85	61XC0000		0.533	ugm/gm	G	Sludge/Composite		Braun	NaOH	8.53E+02	
TY101	OH-	9/11/85			3.48E-04	g/L	G	Sludge		Wastren	NaOH	8.19E+02	
TY105	OH	9/13/85	61XC0000	1.53	0.533	ugm/gm	G	Sludge/Composite		Braun	NaOH	8.15E+02	
TY101	OH Free	9/1/85		1.64	2.12E-01	ug/g	I	core composite		RAW	NaOH	3.48E+02	
TY101	OH	9/11/85	51XC0000	1.64	0.212	ugm/gm	G	Sludge/Composite		Braun	NaOH	3.48E+02	
TY106	OH-	9/26/85			5.09E-05	g/L	G	Sludge		Wastren	NaOH	1.20E+02	
TY106	OH	9/26/85	161C0000	1.43	0.0356	ugm/gm	G	Sludge/Composite		Braun	NaOH	5.09E+01	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Liquids [Sketch ES-VAL-CC31]
 ASA Value: 1.44E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	Nd	4/1/90	RAT-C106-4A		560	ugm/gm	U	Unknown	Braun	Nd	6.16E+05	2
C105	Nd	4/1/90	RAT-C105-4A		210	ugm/gm	U	Unknown	Braun	Nd	2.31E+05	2
ASA Value: 1.44E+05 ug/L												
AX102	Nd	8/1/88			1.00E-03	M	P	supernate	RAW	Nd	1.44E+05	*
AX102	Nd	11/14/88	RAT-AX102-3		0.001	moles/l	P	Supernate	Braun	Nd	1.44E+05	*
AX102	Nd	11/14/88			1.44E-01	g/L	P	Supernate	Wastren	Nd	1.44E+05	*
C102	Nd	4/1/90	RAT-C102-1		60	ugm/gm	U	Unknown	Braun	Nd	6.60E+04	
t107	Neodymium	3/1/93	B08V16	1.02	1.12E+00	ug/mL	L	DUPLICATE RESULT	TCD	Nd	1.12E+03	
t107	Neodymium	3/1/93	B08V16	1.02	1.12E+00	ug/mL	L	DUPLICATE RESULT	TCD	Nd	1.12E+03	
t107	Neodymium	3/1/93	B08V58	1.2	1.04E+00	ug/mL	L	DUPLICATE RESULT	TCD	Nd	1.04E+03	
t107	Neodymium	3/1/93	B08V16	1.02	9.49E-01	ug/mL	L	PRIMARY RESULT	TCD	Nd	9.49E+02	
t107	Neodymium	3/1/93	B08V16	1.02	9.49E-01	ug/mL	L	PRIMARY RESULT	TCD	Nd	9.49E+02	
t107	Neodymium	3/1/93	B08V58	1.2	7.95E-01	ug/mL	L	PRIMARY RESULT	TCD	Nd	7.95E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
t107	Neodymium	3/1/93	B08VB5	1.1	1.95E+00	UG/L	L	DUPLICATE RESULT	TCD	Nd	1.95E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t102	Neodymium	3/1/93	B0B732	1.32	6.62E+03	ug/g	S	PRIMARY RESULT	TCD	Nd	8.74E+06	31
t102	Neodymium	3/1/93	B0B732	1.32	4.78E+03	ug/g	S	DUPLICATE RESULT	TCD	Nd	6.31E+06	31
U110	Neodymium	12/1/89	Core 12 Segment 2	1.77	3.39E+03	ug/g	I	PRIMARY	U110 Core Dat	Nd	5.99E+06	31
U110	Neodymium	12/1/89	Core 12 Segment 2	1.77	3.21E+03	ug/g	I	DUPLICATE	U110 Core Dat	Nd	5.67E+06	31
U110	Neodymium	12/1/89	Core Composite 13	1.3	3.90E+03	ug/g	I	PRIMARY	U110 Core Dat	Nd	5.07E+06	31
U110	Neodymium	12/1/89	Core Composite 13	1.3	3.11E+03	ug/g	I	DUPLICATE	U110 Core Dat	Nd	4.04E+06	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	2.22E+03	ug/g	I	PRIMARY	U110 Core Dat	Nd	3.72E+06	31
U110	Neodymium	12/1/89	Core 13 Segment 3	1.14	3.17E+03	ug/g	I	DUPLICATE	U110 Core Dat	Nd	3.62E+06	31
U110	Neodymium	12/1/89	Core 13 Segment 3	1.14	3.14E+03	ug/g	I	PRIMARY	U110 Core Dat	Nd	3.58E+06	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	1.88E+03	ug/g	I	DUPLICATE	U110 Core Dat	Nd	3.15E+06	31
t102	Neodymium	3/1/93	B0B732	1.32	1.94E+03	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.56E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 1	1.78	1.36E+03	ug/g	I	DUPLICATE	U110 Core Dat	Nd	2.43E+06	31
T102	Nd	3/1/93	93-087755	1.79	1302	ugm/gm	G	Sludge/Composite	Braun	Nd	2.33E+06	31
t102	Neodymium	3/1/93	B0B732	1.32	1.30E+03	ug/g	S	PRIMARY RESULT	TCD	Nd	1.72E+06	31
U110	Neodymium	12/1/89	Core Composite 6	1.54	8.96E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.38E+06	31
U110	Nd	12/4/89	89-084		850	ugm/gm	G	Sludge	Braun	Nd	1.36E+06	31
U110	Neodymium	12/1/89	Core 12 Segment 4	1.48	8.51E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.26E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 4	1.93	6.49E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.25E+06	31
U110	Neodymium	12/1/89	Core 6 Segment 4	1.8	6.64E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.20E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 1	1.78	6.71E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.19E+06	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	7.05E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.18E+06	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	7.03E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.18E+06	31
U110	Neodymium	12/1/89	Core 12 Segment 4	1.48	7.92E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.17E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 3	1.53	7.59E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.16E+06	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	6.66E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.12E+06	31
U110	Neodymium	12/1/89	Core 15 Segment 4	1.31	8.50E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.11E+06	31
U110	Neodymium	12/1/89	Core 6 Segment 2	1.59	6.95E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.11E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 3	1.53	7.20E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.10E+06	31
U110	Neodymium	12/1/89	Core 15 Segment 3	1.3	8.24E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.07E+06	31
U110	Neodymium	12/1/89	Core 6 Segment 2	1.59	6.72E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.07E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 4	1.93	5.40E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.04E+06	31
U110	Neodymium	12/1/89	Core 14 Segment 4	1.62	6.39E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.04E+06	31
U110	Neodymium	12/1/89	Core Composite 6	1.54	6.70E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	1.03E+06	31
U110	Neodymium	12/1/89	Core Composite 6	1.54	6.67E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.03E+06	31
B110	Neodymium	4/1/90	Core Composite 9	1.32	7.71E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	1.02E+06	31
U110	Neodymium	12/1/89	Core 7 Segment 2	1.46	6.86E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.00E+06	31
U110	Neodymium	12/1/89	Core 15 Segment 4	1.31	7.64E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	1.00E+06	31
U110	Neodymium	12/1/89	Core Composite 14	1.48	6.69E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	9.90E+05	31

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Neodymium	12/1/89	Core Composite 14	1.48	6.69E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	9.90E+05	31
C106	Nd	4/1/90			9.80E-01	g/L	G	Sludge	Wastren	Nd	9.80E+05	2
U110	Neodymium	12/1/89	Core Composite 12	1.42	6.69E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	9.50E+05	31
U110	Neodymium	12/1/89	Core Composite 14	1.48	6.39E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	9.46E+05	31
U110	Neodymium	12/1/89	Core Composite 12	1.42	6.65E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	9.44E+05	31
U110	Neodymium	12/1/89	Core 6 Segment 4	1.8	5.16E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	9.29E+05	31
U110	Neodymium	12/1/89	Core 13 Segment 4	1.46	6.35E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	9.27E+05	31
U110	Neodymium	12/1/89	Core Composite 14	1.48	6.12E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	9.06E+05	31
C106	Nd	2/1/91			5.60E+02	mg/kg	S	KOH Fusion	RAW	Nd	8.96E+05	2
U110	Neodymium	12/1/89	Core Composite 6	1.54	5.79E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	8.92E+05	31
U110	Neodymium	12/1/89	Core 13 Segment 4	1.46	6.09E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.89E+05	31
U110	Neodymium	12/1/89	Core 15 Segment 2	1.27	6.95E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	8.83E+05	31
U110	Neodymium	12/1/89	Core 7 Segment 2	1.46	6.03E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.80E+05	31
B110	Neodymium	4/1/90	Core Composite 9	1.32	6.64E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	8.77E+05	31
U110	Neodymium	12/1/89	Core 14 Segment 4	1.62	5.41E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.76E+05	31
U110	Neodymium	12/1/89	Core 6 Segment 3	1.22	7.11E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	8.67E+05	31
U110	Neodymium	12/1/89	Core 15 Segment 2	1.27	6.63E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.42E+05	31
U110	Neodymium	12/1/89	Core Composite 7	1.675	4.97E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.32E+05	31
U110	Neodymium	12/1/89	Core 6 Segment 3	1.22	6.80E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.30E+05	31
U110	Neodymium	12/1/89	Core Composite 15	1.29	6.36E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	8.20E+05	31
U110	Neodymium	12/1/89	Core Composite 15	1.29	6.28E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	8.10E+05	31
U110	Neodymium	12/1/89	Core 15 Segment 3	1.3	6.11E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	7.94E+05	31
U110	Neodymium	12/1/89	Core Composite 5	1.04	7.25E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	7.54E+05	31
U110	Neodymium	12/1/89	Core Composite 5	1.04	6.94E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	7.22E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 4	1.3	5.04E+02	ug/g	I		B110 Core Data	Nd	6.55E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 5	1.3	5.01E+02	ug/g	I		B110 Core Data	Nd	6.52E+05	31
U110	Neodymium	12/1/89	Core 12 Segment 3	1	6.38E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	6.38E+05	31
U110	Neodymium	12/1/89	Core Composite 5	1.04	6.13E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	6.38E+05	31
U110	Neodymium	12/1/89	Core 12 Segment 3	1	6.09E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	6.09E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.92E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.83E+05	31
U110	Neodymium	12/1/89	Core 5 Segment 3	1.04	5.54E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	5.76E+05	31
U110	Neodymium	12/1/89	Core 14 Segment 2	1.39	4.13E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	5.74E+05	31
t107	Neodymium	3/1/93	B08VD8	1.42	4.04E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	5.74E+05	20
t107	Neodymium	3/1/93	B08VD8	1.42	4.03E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.72E+05	20
c112	Neodymium	3/1/92	B08DY1	2	2.73E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.45E+05	31
B110	Neodymium	4/1/90	Core Composite 1	1.36	3.99E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	5.43E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.70E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	5.41E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.69E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	5.37E+05	31

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c112	Neodymium	3/1/92	B08DY1	2	2.68E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.36E+05	31
B110	Neodymium	4/1/90	Core Composite 1	1.36	3.89E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	5.30E+05	31
U110	Neodymium	12/1/89	Core Composite 5	1.04	5.08E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	5.28E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.62E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	5.23E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	3.89E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	5.13E+05	31
B110	Neodymium	4/1/90	CORE 2 SEGMENT 5	1.28	3.96E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	5.07E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.53E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.05E+05	31
U110	Neodymium	12/1/89	Core 14 Segment 2	1.39	3.62E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	5.03E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.49E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.98E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.47E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.95E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	3.74E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.94E+05	31
B110	Neodymium	4/1/90	CORE 1 SEGMENT 2	1.3	3.77E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	4.90E+05	31
U110	Neodymium	12/1/89	Core 14 Segment 3	1.4	3.48E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	4.87E+05	31
B110	Neodymium	4/1/90	Core Composite 1	1.36	3.58E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	4.86E+05	31
t107	Neodymium	3/1/93	B08VB9	1.19	4.05E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.82E+05	20
t107	Neodymium	3/1/93	B08VB9	1.19	4.04E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.81E+05	20
t107	Neodymium	3/1/93	B08VB9	1.19	4.04E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.81E+05	20
c112	Neodymium	3/1/92	B08DY1	2	2.38E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.77E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	3.54E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.67E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 2	1.3	3.58E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	4.66E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 4	1.3	3.57E+02	ug/g	I		B110 Core Data	Nd	4.64E+05	31
B110	Neodymium	4/1/90	Core Composite 10	1.34	3.42E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	4.59E+05	31
U110	Neodymium	12/1/89	Core 14 Segment 3	1.4	3.27E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	4.58E+05	31
U110	Neodymium	12/1/89	Core Composite 13	1.3	3.50E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	4.55E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.26E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.52E+05	31
U110	Neodymium	12/1/89	Core Composite 13	1.3	3.45E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	4.49E+05	31
c112	Neodymium	3/1/92	B08DY1	2	2.23E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	4.45E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	3.24E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.28E+05	31
B110	Neodymium	4/1/90	Core Composite 18	1.37	3.00E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	4.11E+05	31
c112	Neodymium	3/1/92	B08DN8	1.6	2.51E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.01E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	2.83E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	3.74E+05	31
B110	Neodymium	4/1/90	Core Composite 4	1.36	2.72E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	3.70E+05	31
C105	Nd	4/1/90			3.68E-01	g/L	G	Sludge	Wastren	Nd	3.68E+05	2
c112	Neodymium	3/1/92	B08DN8	1.6	2.29E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	3.67E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 2	1.3	2.78E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	3.61E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	2.63E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	3.47E+05	31
B110	Neodymium	4/1/90	Core Composite 1	1.36	2.53E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	3.44E+05	31
C105	Nd	2/1/91			2.10E+02	mg/kg	S	KOH Fusion	RAW	Nd	3.36E+05	2

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Neodymium	4/1/90	CORE 2 SEGMENT 5	1.28	2.53E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	3.24E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.88E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	3.01E+05	31
B110	Neodymium	4/1/90	Core Composite 18	1.37	2.16E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	2.96E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.80E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	2.87E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.70E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.71E+05	31
t102	Neodymium	3/1/93	B0B732	1.32	1.98E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.61E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.61E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	2.58E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.57E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.52E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.55E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.48E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.47E+05	31
U110	Neodymium	12/1/89	Core 5 Segment 4		1.52E+02	ug/g	I	PRIMARY	U110 Core Dat	Nd	2.43E+05	31
c112	Neodymium	3/1/92	B08DM7	1.6	1.50E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	2.40E+05	31
B110	Neodymium	4/1/90	CORE 4 SEGMENT 5	1.3	1.76E+02	ug/g	I		B110 Core Data	Nd	2.29E+05	31
ASA Value: 2.28E+05 ug/L												
t107	Neodymium	3/1/93	B08V43	1.15	1.98E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	2.28E+05	*
U110	Neodymium	12/1/89	Core 5 Segment 4		1.39E+02	ug/g	I	DUPLICATE	U110 Core Dat	Nd	2.22E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.85E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	2.13E+05	
B110	Neodymium	4/1/90	Core Composite 3	1.36	1.39E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.89E+05	
B110	Neodymium	4/1/90	Core Composite 3	1.36	1.34E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	1.83E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.56E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.79E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.06E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.70E+05	
t107	Neodymium	3/1/93	B08V39	1.57	1.07E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.68E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.05E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.68E+05	
B110	Neodymium	4/1/90	CORE 4 SEGMENT 3	1.3	1.29E+02	ug/g	I	PRIMARY	B110 Core Data	Nd	1.67E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.04E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.66E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.42E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.63E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.02E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.63E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.01E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.62E+05	
B110	Neodymium	4/1/90	CORE 4 SEGMENT 4	1.3	1.25E+02	ug/g	I		B110 Core Data	Nd	1.62E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	1.01E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.62E+05	
t107	Neodymium	3/1/93	B08V44	1.1	1.47E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.62E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.40E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.61E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.36E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.56E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.36E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.56E+05	
B110	Neodymium	4/1/90	Core Composite 4	1.36	1.14E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.55E+05	
t107	Neodymium	3/1/93	B08TZ2	1.29	1.16E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.50E+05	
t107	Neodymium	3/1/93	B08V44	1.1	1.36E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.50E+05	
c109	Neodymium	9/1/92	B08T17	1.2	1.23E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.48E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Neodymium	5/28/93	B08WT4	2.01	7.34E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.48E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	9.08E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.45E+05	
B110	Neodymium	4/1/90	CORE 4 SEGMENT 2	1.3	1.10E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.44E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.22E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.40E+05	
c112	Neodymium	3/1/92	B08DM7	1.6	8.72E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.40E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.20E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.38E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.18E+02	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.36E+05	
t107	Neodymium	3/1/93	B08V43	1.15	1.17E+02	ug/g	S	PRIMARY RESULT	TCD	Nd	1.35E+05	
t107	Neodymium	3/1/93	B08VF0	1.38	9.63E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.33E+05	
B110	Neodymium	4/1/90	CORE 4 SEGMENT 3	1.3	1.01E+02	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.31E+05	
t107	Neodymium	3/1/93	B08V39	1.57	7.91E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.24E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	6.16E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.24E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	6.15E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.24E+05	
c112	Neodymium	3/1/92	B08DN6	1.3	9.30E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.21E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	5.99E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.20E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	5.99E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.20E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	5.97E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.20E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	5.95E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.20E+05	
t105	Neodymium	5/28/93	B08WT4	2.01	5.91E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.19E+05	
t107	Neodymium	3/1/93	B08TZ2	1.29	9.17E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.18E+05	
c112	Neodymium	3/1/92	B08DN6	1.3	8.98E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.17E+05	
c112	Neodymium	3/1/92	B08DN6	1.3	8.94E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.16E+05	
c112	Neodymium	3/1/92	B08DN6	1.3	8.92E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.16E+05	
B110	Neodymium	4/1/90	CORE 4 SEGMENT 4	1.3	8.73E+01	ug/g	I		B110 Core Data	Nd	1.13E+05	
C102	Nd	6/17/87			7.02E+01	uG/G	S	Acid/PARR	RAW	Nd	1.12E+05	
C102	Nd	12/1/86	RAT-C102-2		70.2	ugm/gm	I	Composite	Braun	Nd	1.12E+05	
t105	Neodymium	5/28/93	B08WT2	0.89	1.24E+02	mg/kg	S	DUPLICATE RESULT	TCD	Nd	1.10E+05	
t107	Neodymium	3/1/93	B08VD9	1.305	7.68E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.00E+05	
U110	Neodymium	12/1/89	Core 5 Segment 3	1.04	9.50E+01	ug/g	I	PRIMARY	U110 Core Data	Nd	9.88E+04	
B110	Neodymium	4/1/90	Core Composite 4	1.36	7.24E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	9.84E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	7.63E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	9.84E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	7.07E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	9.76E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	7.27E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	9.68E+04	
C102	Nd	2/1/91			6.00E+01	mg/kg	S	KOH Fusion	RAW	Nd	9.60E+04	
C102	Nd	7/10/86	E1XCOOXX	1.351	70.2	ugm/gm	G	Sludge/Composite	Braun	Nd	9.48E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	7.35E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	9.48E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	7.17E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	9.25E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	6.81E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	9.05E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Neodymium	4/1/90	Core Composite 10	1.34	6.60E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	8.85E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	6.84E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	8.82E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	6.80E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	8.77E+04	
c109	Neodymium	9/1/92	B08T17	1.2	7.30E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	8.76E+04	
t105	Neodymium	5/28/93	B08WT2	0.89	9.61E+01	mg/kg	S	PRIMARY RESULT	TCD	Nd	8.55E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	6.49E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	8.37E+04	
B110	Neodymium	4/1/90	Core Composite 3	1.36	6.11E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	8.31E+04	
B110	Neodymium	4/1/90	Core Composite 3	1.36	6.11E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	8.31E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	5.97E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	8.24E+04	
t105	Neodymium	5/28/93	B08WT4	2.01	4.08E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	8.20E+04	
B110	Neodymium	4/1/90	Core Composite 10	1.34	6.11E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	8.19E+04	
t105	Neodymium	5/28/93	B08WT4	2.01	4.06E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	8.16E+04	
T105	Nd	10/26/93	RAT-T105-2B	2.01	40.6	ugm/gm	G	Sludge/Composite	Braun	Nd	8.16E+04	
t107	Neodymium	3/1/93	B08TZ3	0.95	8.43E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	8.01E+04	
t107	Neodymium	3/1/93	B08V44	1.1	7.12E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	7.83E+04	
B110	Neodymium	4/1/90	Core Composite 4	1.36	5.70E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	7.76E+04	
c109	Neodymium	9/1/92	B08T17	1.2	6.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	7.68E+04	
t107	Neodymium	3/1/93	B08TZ3	0.95	7.69E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	7.31E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	5.40E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	7.18E+04	
c109	Neodymium	9/1/92	B08T17	1.2	5.80E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	6.96E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	4.94E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	6.82E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	5.25E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	6.77E+04	
t107	Neodymium	3/1/93	B08VR2	1.735	3.86E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	6.70E+04	
t107	Neodymium	3/1/93	B08VR2	1.735	3.85E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	6.68E+04	
t107	Neodymium	3/1/93	B08VB9	1.19	5.53E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	6.58E+04	
c109	Neodymium	9/1/92	B08T17	1.2	5.30E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	6.36E+04	
c112	Neodymium	3/1/92	B08DN8	1.6	3.66E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.86E+04	
c112	Neodymium	3/1/92	B08DN8	1.6	3.60E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	5.76E+04	
B110	Neodymium	4/1/90	CORE 3 SEGMENT 3	1.3	4.05E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	5.27E+04	
B110	Neodymium	4/1/90	CORE 3 SEGMENT 3	1.3	4.05E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	5.27E+04	
t107	Neodymium	3/1/93	B08TZ2	1.29	4.02E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	5.19E+04	
c109	Neodymium	9/1/92	B08T17	1.2	4.30E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.16E+04	
c109	Neodymium	9/1/92	B08T16	1.3	3.90E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	5.07E+04	
t107	Neodymium	3/1/93	B08VD9	1.305	3.88E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.06E+04	
c109	Neodymium	9/1/92	B08T17	1.2	4.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	5.04E+04	
B110	Neodymium	4/1/90	Core Composite 1	1.36	3.41E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	4.63E+04	
t107	Neodymium	3/1/93	B08VB9	1.19	3.89E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.63E+04	
t107	Neodymium	3/1/93	B08VB9	1.19	3.82E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	4.55E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Neodymium	3/1/93	B08VB9	1.19	3.55E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	4.22E+04	
c109	Neodymium	9/1/92	B08T17	1.2	3.50E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	4.20E+04	
t107	Neodymium	3/1/93	B08V44	1.1	3.76E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	4.14E+04	
c109	Neodymium	9/1/92	B08T16	1.3	3.10E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	4.03E+04	
c109	Neodymium	9/1/92	B08T16	1.3	3.00E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	3.90E+04	
c109	Neodymium	9/1/92	B08T16	1.3	2.70E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	3.51E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	2.58E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	3.43E+04	
B110	Neodymium	4/1/90	Core Composite 1	1.36	2.43E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	3.31E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	2.11E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	2.81E+04	
c109	Neodymium	9/1/92	B08T17	1.2	2.20E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	2.64E+04	
B110	Neodymium	4/1/90	Core Composite 9	1.32	1.99E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	2.63E+04	
B110	Neodymium	4/1/90	Core Composite 3	1.36	1.71E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	2.33E+04	
B110	Neodymium	4/1/90	Core Composite 10	1.34	1.71E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	2.29E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	1.60E+01	ug/g	S	DUPLICATE RESULT	TCD	Nd	2.21E+04	
B110	Neodymium	4/1/90	Core Composite 10	1.34	1.47E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.97E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	1.40E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.93E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	1.39E+01	ug/g	S	PRIMARY RESULT	TCD	Nd	1.92E+04	
B110	Neodymium	4/1/90	Core Composite 2	1.33	1.41E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	1.87E+04	
B110	Neodymium	4/1/90	Core Composite 9	1.32	1.24E+01	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.64E+04	
B110	Neodymium	4/1/90	Core Composite 9	1.32	1.24E+01	ug/g	I	PRIMARY	B110 Core Data	Nd	1.64E+04	
B110	Neodymium	4/1/90	Core Composite 3	1.36	9.78E+00	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.33E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	9.39E+00	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.30E+04	
B110	Neodymium	4/1/90	Core Composite 18	1.37	9.02E+00	ug/g	I	PRIMARY	B110 Core Data	Nd	1.24E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	8.91E+00	ug/g	S	PRIMARY RESULT	TCD	Nd	1.23E+04	
B110	Neodymium	4/1/90	Core Composite 18	1.37	8.79E+00	ug/g	I	PRIMARY	B110 Core Data	Nd	1.20E+04	
B110	Neodymium	4/1/90	Core Composite 4	1.36	8.77E+00	ug/g	I	DUPLICATE	B110 Core Data	Nd	1.19E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	8.10E+00	ug/g	S	PRIMARY RESULT	TCD	Nd	1.12E+04	
t107	Neodymium	3/1/93	B08VF0	1.38	8.07E+00	ug/g	S	DUPLICATE RESULT	TCD	Nd	1.11E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
B110	Neodymium	4/1/90	Core Composite 9	1.32	7.46E+00	ug/g	I	DUPLICATE	B110 Core Data	Nd	9.85E+03	
C102	Nd	1/21/88	E1XCOOXX		4.74E+00	PPM	S	Raw Acid	RAW	Nd	7.58E+03	
t105	Neodymium	5/28/93	B08WT2	0.89	8.43E+00	ug/g	S	PRIMARY RESULT	TCD	Nd	7.50E+03	
t105	Neodymium	5/28/93	B08WT2	0.89	8.41E+00	ug/g	S	DUPLICATE RESULT	TCD	Nd	7.48E+03	
B110	Neodymium	4/1/90	Core Composite 4	1.36	4.39E+00	ug/g	I	PRIMARY	B110 Core Data	Nd	5.97E+03	
C102	Nd	2/1/91	2		3.60E+00	mg/kg	S	water leach	RAW	Nd	5.76E+03	
B110	Neodymium	4/1/90	Core Composite 18	1.37	2.56E+00	ug/g	I	DUPLICATE	B110 Core Data	Nd	3.51E+03	
B110	Neodymium	4/1/90	Core Composite 18	1.37	2.26E+00	ug/g	I	DUPLICATE	B110 Core Data	Nd	3.10E+03	
T102	Nd	5/4/93	Core 55		1.30E+00	ug/g	I	core segment	RAW	Nd	2.08E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Single-Shell Tank Solids [Sketch ES-VAL-CC32]
 ASA Value: 2.28E+05 ug/L

Tank Waste Characterization Sample Information									
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source
C102	Nd	2/1/91	2		1.80E-01	ug/mL	S	water leach	RAW
									Analyte Information
									Analyte ug/L
									Nd 1.80E+02

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Ammonia Single-Shell Tank Liquids [Sketch ES-VAL-CC33]
ASA Value: 5.05E+05

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
T106	NH4 +	6/18/73	T-7422		6.50E-02	M	I	clear, yellow	RAW	NH3	1.11E+06	11
T106	NH4	6/18/73	T-7422		0.065	moles/l	P	Supernate	Braun	NH3	1.11E+06	11
Preliminary ASA Value: 1.1E+06 ug/L												
TX105	NH3	1/21/74	T-805		0.0525	moles/l	L	Liquor	Braun	NH3	8.93E+05	11
S102	NH4	11/24/75	T-119	1.44	4.46E-02	M	L	dark brown, cruddy	RAW	NH3	7.58E+05	11
ASA Value: 5.05E+05 ug/L												
S102	NH4	11/24/75	T-119	1.44	0.0446	moles/l	P	Supernate	Braun	NH3	7.58E+05	*
AX102	NH4	11/14/88			5.05E-01	g/L	P	Supernate	Wastren	NH3	5.05E+05	
AX102	NH4	11/14/88	RAT-AX102-3		0.028	moles/l	P	Supernate	Braun	NH3	4.76E+05	
t105	Ammonia	5/28/93	B08WT3	1.49	4.00E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	4.00E+05	
t105	Ammonia	5/28/93	B08WT3	1.49	4.00E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	4.00E+05	
S102	NH4	11/10/75	T-9601	1.42	0.0194	moles/l	P	Supernate	Braun	NH3	3.30E+05	
S102	NH4	5/13/74	T-3601	1.284	0.0192	moles/l	P	Supernate	Braun	NH3	3.26E+05	
S102	NH4	11/11/75	T-9697	1.42	0.017	moles/l	P	Supernate	Braun	NH3	2.89E+05	
S102	NH4	11/21/75	T-37	1.28	1.40E-02	M	L	Greenish Brown	RAW	NH3	2.38E+05	
S102	NH4	11/21/75	T-37	1.28	0.014	moles/l	P	Supernate	Braun	NH3	2.38E+05	
t107	Ammonia	3/1/93	B08VB5	1.1	2.25E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.25E+05	
A101	NH4	10/14/74	T-8936	1.289	0.00715	moles/l	P	Supernate	Braun	NH3	1.22E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
c110	Ammonia	4/23/92	B08VM5	1	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VM5	1	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VH6	1.18	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VH6	1.18	8.75E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.75E+04	
c110	Ammonia	4/23/92	B08VM5	1	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VM5	1	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VP9	1.1	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VH6	1.18	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
c110	Ammonia	4/23/92	B08VH6	1.18	8.54E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.54E+04	
t107	Ammonia	3/1/93	B08V58	1.2	8.31E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.31E+04	
t107	Ammonia	3/1/93	B08V58	1.2	8.03E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	8.03E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Single-Shell Tank Liquids [Sketch ES-VAL-CC33]
 ASA Value: 5.05E+05

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Tank Waste Characterization Sample Information								Analyte Information				
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Ammonia	3/1/93	B08V16	1.02	4.30E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	4.30E+04	
t107	Ammonia	3/1/93	B08V16	1.02	4.30E+01	ug/mL	L	DUPLICATE RESULT	TCD	NH3	4.30E+04	
t107	Ammonia	3/1/93	B08V16	1.02	4.16E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	4.16E+04	
c112	Ammonia	3/1/92	B08DZ5	1.4	5.00E+00	ug/g	L	PRIMARY RESULT	TCD	NH3	7.00E+03	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Single-Shell Tank Solids [Sketch ES-VAL-CC34]
 ASA Value: 3.30E+05 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Ammonia	12/1/89	Core Composite 6	1.54	1.67E+04	ug/g	I	PRIMARY	U110 Core Data	NH3	2.57E+07	20
U110	Ammonia	12/1/89	Core Composite 6	1.54	1.60E+04	ug/g	I	DUPLICATE	U110 Core Data	NH3	2.46E+07	20
U110	Ammonia	12/1/89	Core Composite 5	1.04	1.28E+04	ug/g	I	PRIMARY	U110 Core Data	NH3	1.33E+07	20
U110	Ammonia	12/1/89	Core Composite 5	1.04	1.09E+04	ug/g	I	DUPLICATE	U110 Core Data	NH3	1.13E+07	20
U110	Ammonia	12/1/89	Core Composite 8		5.40E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	8.64E+06	20
U110	Ammonia	12/1/89	Core Composite 8		5.24E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	8.38E+06	20
U110	Ammonia	12/1/89	Core Composite 12	1.42	5.87E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	8.34E+06	20
U110	Ammonia	12/1/89	Core Composite 14	1.48	5.40E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	7.99E+06	20
B202	NH3	12/31/91			7.88E+00	g/L	G	Sludge	Wastren	NH3	7.88E+06	15
U110	Ammonia	12/1/89	Core Composite 14	1.48	5.29E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	7.83E+06	20
U110	Ammonia	12/1/89	Core Composite 13	1.3	5.44E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	7.07E+06	20
U110	Ammonia	12/1/89	Core Composite 12	1.42	4.62E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	6.56E+06	20
U110	Ammonia	12/1/89	Core Composite 15	1.29	4.14E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	5.34E+06	20
U110	Ammonia	12/1/89	Core Composite 15	1.29	4.09E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	5.28E+06	20
U110	Ammonia	12/1/89	Core Composite 13	1.3	4.05E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	5.27E+06	20
t107	Ammonia	3/1/93	B08VB9	1.19	4.26E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	5.07E+06	20
t107	Ammonia	3/1/93	B08VB9	1.19	4.20E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	5.00E+06	20
U110	Ammonia	12/1/89	Core Composite 7	1.675	1.73E+03	ug/g	I	PRIMARY	U110 Core Data	NH3	2.90E+06	20
U110	Ammonia	12/1/89	Core Composite 7	1.675	1.64E+03	ug/g	I	DUPLICATE	U110 Core Data	NH3	2.75E+06	20
Preliminary ASA Value: 1.5E+06 ug/L												15
S101	NH4	11/19/75			3.50E-01	g/L	G	Sludge	Wastren	NH3	3.50E+05	6
ASA Value: 3.30E+05 ug/L												
S101	NH4	11/19/75	T-9715	1.51	1.94E-02	M	D	Suspended Solids	RAW	NH3	3.30E+05	*
S101	NH4	11/19/75	T-9715	1.51	0.0194	moles/l	G	Sludge	Braun	NH3	3.30E+05	*
S102	NH4	5/13/74	T-3601	1.284	1.92E-02	M	S		RAW	NH3	3.26E+05	
S102	NH4	11/11/75	T-9697	1.42	1.70E-02	M	D	Suspended Solids	RAW	NH3	2.89E+05	
t102	Ammonia	3/1/93	B0B732	1.48	2.70E+01	ug/g	S	PRIMARY RESULT	TCD	NH3	4.00E+04	
U110	NH4	12/3/89	89-077		14.5	ugm/gm	G	Sludge	Braun	NH3	2.32E+04	
c112	Ammonia	3/1/92	B08DY1	2	5.10E+00	ug/g	S	PRIMARY RESULT	TCD	NH3	1.02E+04	
Minimum Plot Limit: 1.00E+04 ug/L												

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Antimony Single-Shell Tank Liquids [Sketch ES-VAL-CC35]
ASA Value: 3.56E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	Sb	4/1/90	RAT-C106-4A		2900	ugm/gm	U	Unknown	Braun	Sb	3.19E+06	2
C105	Sb	4/1/90	RAT-C105-4A		2500	ugm/gm	U	Unknown	Braun	Sb	2.75E+06	2
Preliminary ASA Value: 3.7E+04 ug/L												20
c110	Antimony	4/23/92	B08VM5	1	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	3.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VM5	1	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VM5	1	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	3.70E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.70E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	1.87E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	1.87E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VP9	1.1	1.87E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	1.87E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VH6	1.18	1.87E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.87E+04	20
c110	Antimony	4/23/92	B08VM5	1	1.83E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.83E+04	20
c110	Antimony	4/23/92	B08VM5	1	1.83E+01	ug/mL	L	DUPLICATE RESULT	TCD	Sb	1.83E+04	20
c110	Antimony	4/23/92	B08VM5	1	1.83E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.83E+04	20
c110	Antimony	4/23/92	B08VM5	1	1.83E+01	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.83E+04	20
ASA Value: 3.56E+03 ug/L												
t104	Antimony	8/26/92	B08TQ7	1.1	3.56E+00	ug/mL	L	PRIMARY RESULT	TCD	Sb	3.56E+03	*
t107	Antimony	3/1/93	B08V58	1.2	2.52E+00	ug/mL	L	PRIMARY RESULT	TCD	Sb	2.52E+03	
t107	Antimony	3/1/93	B08V16	1.02	2.27E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sb	2.27E+03	
t107	Antimony	3/1/93	B08V16	1.02	2.27E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sb	2.27E+03	
t107	Antimony	3/1/93	B08V16	1.02	1.57E+00	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.57E+03	
t107	Antimony	3/1/93	B08V16	1.02	1.57E+00	ug/mL	L	PRIMARY RESULT	TCD	Sb	1.57E+03	
Minimum Plot Limit: 1.00E+02 ug/L												

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WCH-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Liquids [Sketch ES-VAL-CC35]
 ASA Value: 3.56E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
c112	Antimony	3/1/92	B08DZ5	1.4	3.00E-01	ug/g	L	DUPLICATE RESULT	TCD	Sb	4.20E+02	
c112	Antimony	3/1/92	B08DZ5	1.4	3.00E-01	ug/g	L	PRIMARY RESULT	TCD	Sb	4.20E+02	
t107	Antimony	3/1/93	B08VB5	1.1	3.80E+00	UG/L	L	DUPLICATE RESULT	TCD	Sb	3.80E+00	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
B110	Antimony	4/1/90	CORE 1 SEGMENT 2	1.3	4.15E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	5.39E+06	31	
C106	Sb	4/1/90			5.08E+00	g/L	G	Sludge	Wastren	Sb	5.08E+06	2	
B110	Antimony	4/1/90	CORE 4 SEGMENT 5	1.3	3.84E+03	ug/g	I		B110 Core Data	Sb	4.99E+06	31	
C106	Sb	2/1/91			2.90E+03	mg/kg	S	KOH Fusion	RAW	Sb	4.64E+06	2	
C105	Sb	4/1/90			4.38E+00	g/L	G	Sludge	Wastren	Sb	4.38E+06	2	
B110	Antimony	4/1/90	CORE 4 SEGMENT 3	1.3	3.16E+03	ug/g	I	DUPLICATE	B110 Core Data	Sb	4.11E+06	31	
U110	Sb	12/15/89	89-070/1/2		2539	ugm/gm	G	Sludge/Composite	Braun	Sb	4.06E+06	20	
C105	Sb	2/1/91			2.50E+03	mg/kg	S	KOH Fusion	RAW	Sb	4.00E+06	20	
B110	Antimony	4/1/90	CORE 4 SEGMENT 2	1.3	3.05E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	3.96E+06	31	
B110	Antimony	4/1/90	CORE 4 SEGMENT 5	1.3	2.88E+03	ug/g	I		B110 Core Data	Sb	3.75E+06	31	
U110	Antimony	12/1/89	Core Composite 12	1.42	2.54E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	3.61E+06	20	
B110	Antimony	4/1/90	CORE 4 SEGMENT 2	1.3	2.57E+03	ug/g	I	DUPLICATE	B110 Core Data	Sb	3.34E+06	31	
B110	Antimony	4/1/90	Core Composite 3	1.36	2.22E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	3.02E+06	31	
B110	Antimony	4/1/90	CORE 4 SEGMENT 4	1.3	2.18E+03	ug/g	I		B110 Core Data	Sb	2.83E+06	31	
U110	Antimony	12/1/89	Core 12 Segment 2	1.77	1.51E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	2.67E+06	20	
U110	Antimony	12/1/89	Core 12 Segment 2	1.77	1.49E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.64E+06	20	
B110	Antimony	4/1/90	CORE 4 SEGMENT 3	1.3	1.80E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	2.34E+06	31	
B110	Antimony	4/1/90	Core Composite 2	1.33	1.75E+03	ug/g	I	DUPLICATE	B110 Core Data	Sb	2.33E+06	31	
U110	Antimony	12/1/89	Core Composite 13	1.3	1.74E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	2.26E+06	20	
U110	Antimony	12/1/89	Core Composite 8		1.41E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.25E+06	20	
U110	Antimony	12/1/89	Core Composite 12	1.42	1.51E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.14E+06	20	
U110	Sb	12/4/89	89-082/3/4		1294	ugm/gm	G	Sludge/Composite	Braun	Sb	2.07E+06	20	
U110	Antimony	12/1/89	Core Composite 6	1.54	1.26E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.93E+06	20	
U110	Antimony	12/1/89	Core Composite 15	1.29	1.49E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.92E+06	20	
B110	Antimony	4/1/90	Core Composite 1	1.36	1.37E+03	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.86E+06	31	
U110	Antimony	12/1/89	Core Composite 13	1.3	1.39E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.80E+06	20	
U110	Antimony	12/1/89	Core Composite 8		1.10E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	1.76E+06	20	
B110	Antimony	4/1/90	Core Composite 1	1.36	1.27E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	1.72E+06	31	
B110	Antimony	4/1/90	Core Composite 1	1.36	1.24E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	1.68E+06	31	
U110	Antimony	12/1/89	Core Composite 15	1.29	1.29E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	1.67E+06	20	
U110	Antimony	12/1/89	Core Composite 7	1.675	9.89E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	1.66E+06	20	
U110	Antimony	12/1/89	Core 13 Segment 3	1.14	1.41E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.61E+06	20	
U110	Antimony	12/1/89	Core Composite 6	1.54	1.05E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	1.61E+06	20	
U110	Antimony	12/1/89	Core 13 Segment 3	1.14	1.40E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	1.59E+06	20	
C102	Sb	2/1/91			9.90E+02	mg/kg	S	Na2O2 Fusion	RAW	Sb	1.58E+06	2	
B110	Antimony	4/1/90	Core Composite 4	1.36	1.16E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	1.58E+06	31	
U110	Antimony	12/1/89	Core Composite 14	1.48	1.01E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.49E+06	20	
U110	Antimony	12/1/89	Core Composite 14	1.48	9.89E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	1.46E+06	20	
ASA Value: 1.46E+06 ug/L													

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Antimony	3/1/93	B08VD8	1.42	1.03E+03	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.46E+06	*
t107	Antimony	3/1/93	B08VD8	1.42	1.03E+03	ug/g	S	PRIMARY RESULT	TCD	Sb	1.46E+06	*
B110	Antimony	4/1/90	Core Composite 2	1.33	1.09E+03	ug/g	I	PRIMARY	B110 Core Data	Sb	1.45E+06	
U110	Antimony	12/1/89	Core 12 Segment 4	1.48	9.74E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	1.44E+06	
U110	Antimony	12/1/89	Core 15 Segment 4	1.31	1.09E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.43E+06	
U110	Antimony	12/1/89	Core Composite 7	1.675	8.37E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.40E+06	
C102	Sb	2/1/91			8.60E+02	mg/kg	S	KOH Fusion	RAW	Sb	1.38E+06	
U110	Antimony	12/1/89	Core Composite 5	1.04	1.30E+03	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.35E+06	
U110	Antimony	12/1/89	Core 7 Segment 1	1.78	7.34E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.31E+06	
U110	Antimony	12/1/89	Core 15 Segment 3	1.3	9.57E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.24E+06	
t107	Antimony	3/1/93	B08VB9	1.19	1.04E+03	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.24E+06	
t107	Antimony	3/1/93	B08VB9	1.19	1.04E+03	ug/g	S	PRIMARY RESULT	TCD	Sb	1.24E+06	
t107	Antimony	3/1/93	B08VB9	1.19	1.04E+03	ug/g	S	PRIMARY RESULT	TCD	Sb	1.24E+06	
U110	Antimony	12/1/89	Core Composite 5	1.04	1.17E+03	ug/g	I	PRIMARY	U110 Core Data	Sb	1.22E+06	
B110	Antimony	4/1/90	Core Composite 1	1.36	8.95E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.22E+06	
U110	Antimony	12/1/89	Core Composite 7	1.675	6.67E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	1.12E+06	
B110	Antimony	4/1/90	Core Composite 1	1.36	7.49E+02	ug/g	I	PRIMARY	B110 Core Data	Sb	1.02E+06	
U110	Sb	11/10/89	89-043		579	ugm/gm	G	Sludge	Braun	Sb	9.26E+05	
U110	Antimony	12/1/89	Core 6 Segment 2	1.59	5.79E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	9.21E+05	
U110	Antimony	12/1/89	Core Composite 8		5.24E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	8.38E+05	
U110	Antimony	12/1/89	Core 15 Segment 4	1.31	6.07E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	7.95E+05	
U110	Antimony	12/1/89	Core 7 Segment 2	1.46	5.20E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	7.59E+05	
U110	Antimony	12/1/89	Core Composite 13	1.3	5.72E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	7.44E+05	
U110	Antimony	12/1/89	Core Composite 15	1.29	5.66E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	7.30E+05	
U110	Sb	11/15/89	89-048		455	ugm/gm	G	Sludge	Braun	Sb	7.28E+05	
B110	Antimony	4/1/90	Core Composite 9	1.32	5.35E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	7.06E+05	
U110	Antimony	12/1/89	Core 7 Segment 3	1.53	4.55E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	6.96E+05	
B110	Antimony	4/1/90	Core Composite 3	1.36	5.06E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	6.88E+05	
c112	Antimony	3/1/92	B08DN8	1.6	4.25E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	6.79E+05	
U110	Antimony	12/1/89	Core 12 Segment 4	1.48	4.44E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	6.57E+05	
U110	Antimony	12/1/89	Core 15 Segment 3	1.3	5.00E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	6.50E+05	
c112	Antimony	3/1/92	B08DN8	1.6	4.06E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	6.49E+05	
U110	Antimony	12/1/89	Core 6 Segment 3	1.22	4.70E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	5.73E+05	
U110	Antimony	12/1/89	Core 7 Segment 4	1.93	2.89E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	5.58E+05	
U110	Antimony	12/1/89	Core 7 Segment 1	1.78	3.05E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	5.43E+05	
U110	Antimony	12/1/89	Core Composite 14	1.48	3.64E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	5.39E+05	
U110	Antimony	12/1/89	Core Composite 12	1.42	3.77E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	5.35E+05	
U110	Antimony	12/1/89	Core 6 Segment 4	1.8	2.96E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	5.33E+05	
U110	Antimony	12/1/89	Core Composite 7	1.675	3.14E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	5.26E+05	
U110	Antimony	12/1/89	Core Composite 7	1.675	2.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.97E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Antimony	12/1/89	Core 6 Segment 2	1.59	3.10E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.93E+05	
U110	Antimony	12/1/89	Core 7 Segment 3	1.53	3.21E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.91E+05	
U110	Sb	11/15/89	89-046		305	ugm/gm	G	Sludge	Braun	Sb	4.88E+05	
B110	Antimony	4/1/90	Core Composite 3	1.36	3.54E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	4.82E+05	
U110	Antimony	12/1/89	Core Composite 15	1.29	3.70E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.77E+05	
U110	Antimony	12/1/89	Core 14 Segment 1	1.5	3.16E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	4.74E+05	
U110	Antimony	12/1/89	Core 14 Segment 1	1.5	3.15E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.73E+05	
U110	Antimony	12/1/89	Core 7 Segment 4	1.93	2.41E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	4.65E+05	
c112	Antimony	3/1/92	B08DN8	1.6	2.89E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	4.62E+05	
U110	Antimony	12/1/89	Core 14 Segment 4	1.62	2.85E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.62E+05	
U110	Antimony	12/1/89	Core Composite 6	1.54	2.98E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	4.59E+05	
U110	Antimony	12/1/89	Core Composite 6	1.54	2.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.57E+05	
c112	Antimony	3/1/92	B08DY1	2	2.27E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	4.54E+05	
c112	Antimony	3/1/92	B08DN8	1.6	2.82E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.52E+05	
c112	Antimony	3/1/92	B08DY1	2	2.25E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.49E+05	
U110	Antimony	12/1/89	Core 7 Segment 2	1.46	3.06E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.47E+05	
c112	Antimony	3/1/92	B08DY1	2	2.21E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.42E+05	
c112	Antimony	3/1/92	B08DY1	2	2.12E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	4.24E+05	
U110	Antimony	12/1/89	Core Composite 12	1.42	2.98E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	4.23E+05	
U110	Antimony	12/1/89	Core Composite 12	1.42	2.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.22E+05	
U110	Antimony	12/1/89	Core Composite 14	1.48	2.84E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.20E+05	
U110	Antimony	12/1/89	Core Composite 12	1.42	2.96E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.20E+05	
U110	Antimony	12/1/89	Core 6 Segment 4	1.8	2.30E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	4.14E+05	
c112	Antimony	3/1/92	B08DY1	2	2.07E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	4.13E+05	
U110	Antimony	12/1/89	Core 13 Segment 4	1.46	2.83E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.13E+05	
c112	Antimony	3/1/92	B08DY1	2	2.01E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	4.01E+05	
c112	Antimony	3/1/92	B08DY1	2	2.00E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.00E+05	
U110	Antimony	12/1/89	Core Composite 8		2.50E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	4.00E+05	
U110	Antimony	12/1/89	Core 13 Segment 4	1.46	2.71E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.96E+05	
U110	Antimony	12/1/89	Core 15 Segment 2	1.27	3.10E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	3.94E+05	
U110	Antimony	12/1/89	Core 14 Segment 4	1.62	2.41E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.90E+05	
U110	Antimony	12/1/89	Core Composite 13	1.3	2.98E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	3.87E+05	
B110	Antimony	4/1/90	Core Composite 18	1.37	2.82E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	3.87E+05	
U110	Antimony	12/1/89	Core 15 Segment 2	1.27	2.95E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.75E+05	
c112	Antimony	3/1/92	B08DY1	2	1.86E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	3.73E+05	
U110	Antimony	12/1/89	Core Composite 7	1.675	2.21E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.70E+05	
U110	Antimony	12/1/89	Core 6 Segment 3	1.22	3.03E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.70E+05	
U110	Antimony	12/1/89	Core Composite 15	1.29	2.83E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.65E+05	
U110	Antimony	12/1/89	Core Composite 15	1.29	2.80E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	3.61E+05	
c112	Antimony	3/1/92	B08DY1	2	1.80E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	3.60E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
U110	Antimony	12/1/89	Core Composite 5	1.04	3.23E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	3.36E+05	
S104	Sb	4/13/90			3.20E-01	g/L	G	Sludge	Wastren	Sb	3.20E+05	
t107	Antimony	3/1/93	B08V43	1.15	2.73E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	3.14E+05	
c112	Antimony	3/1/92	B08DY1	2	1.56E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	3.13E+05	
c112	Antimony	3/1/92	B08DY1	2	1.51E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	3.02E+05	
U110	Antimony	12/1/89	Core 14 Segment 2	1.39	2.11E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.93E+05	
s104	Antimony	8/1/92	B08TF6	1.6	1.83E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.93E+05	
s104	Antimony	8/1/92	B08TF6		1.83E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.93E+05	
s104	Antimony	8/1/92	B08TF6	1.6	1.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.93E+05	
s104	Antimony	8/1/92	B08TF6		1.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.93E+05	
BX107	Sb	10/20/92	J926-AV		182.81735	ugm/gm	G	Sludge/Composite	Braun	Sb	2.93E+05	
BX107	Sb	10/20/92	J927-AV		182.81735	ugm/gm	G	Sludge/Composite	Braun	Sb	2.93E+05	
BX107	Sb	10/20/92	J924-AV		182.6347	ugm/gm	G	Sludge/Composite	Braun	Sb	2.92E+05	
BX107	Sb	10/20/92	J925-AV		182.2709	ugm/gm	G	Sludge/Composite	Braun	Sb	2.92E+05	
s104	Antimony	8/1/92	B08TF7	1.6	1.82E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.91E+05	
s104	Antimony	8/1/92	B08TF7		1.82E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.91E+05	
s104	Antimony	8/1/92	B08TF7	1.6	1.80E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.88E+05	
s104	Antimony	8/1/92	B08TF7		1.80E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.88E+05	
s104	Antimony	8/1/92	B08TL3	1.6	1.78E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.85E+05	
s104	Antimony	8/1/92	B08TL3		1.78E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.85E+05	
U110	Antimony	12/1/89	Core 12 Segment 3	1	2.84E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.84E+05	
U110	Antimony	12/1/89	Core Composite 5	1.04	2.73E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.84E+05	
s104	Antimony	8/1/92	B08TL4	1.6	1.77E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.83E+05	
s104	Antimony	8/1/92	B08TL4		1.77E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.83E+05	
s104	Antimony	8/1/92	B08TL3	1.6	1.76E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.82E+05	
s104	Antimony	8/1/92	B08TL4	1.6	1.76E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.82E+05	
s104	Antimony	8/1/92	B08TL3		1.76E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.82E+05	
s104	Antimony	8/1/92	B08TL4		1.76E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.82E+05	
c112	Antimony	3/1/92	B08DY1	2	1.40E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.79E+05	
U110	Antimony	12/1/89	Core 12 Segment 3	1	2.71E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	2.71E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.32E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.65E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.32E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.65E+05	
t107	Antimony	3/1/93	B08V43	1.15	2.30E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.65E+05	
t107	Antimony	3/1/93	B08V43	1.15	2.28E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.62E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.29E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.59E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.29E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.59E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.28E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.57E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.28E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.57E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.28E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.57E+05	
C102	Sb	2/1/91	1		1.60E+02	mg/kg	S	Total	RAW	Sb	2.56E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Antimony	12/1/89	Core 14 Segment 2	1.39	1.84E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	2.56E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.27E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.55E+05	
t107	Antimony	3/1/93	B08V43	1.15	2.20E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.53E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.58E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.53E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.57E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.50E+05	
B110	Antimony	4/1/90	Core Composite 3	1.36	1.81E+02	ug/g	I	PRIMARY	B110 Core Data	Sb	2.46E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.53E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.45E+05	
t107	Antimony	3/1/93	B08TZ2	1.29	1.90E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.45E+05	
B110	Antimony	4/1/90	Core Composite 9	1.32	1.74E+02	ug/g	I	PRIMARY	B110 Core Data	Sb	2.30E+05	
B110	Antimony	4/1/90	Core Composite 4	1.36	1.65E+02	ug/g	I	PRIMARY	B110 Core Data	Sb	2.24E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.37E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.20E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.37E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.19E+05	
U110	Antimony	12/1/89	Core 14 Segment 3	1.4	1.55E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	2.17E+05	
c112	Antimony	3/1/92	B08DN8	1.6	1.33E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.13E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.05E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	2.11E+05	
t105	Antimony	5/28/93	B08WT4	2.01	1.03E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.07E+05	
U110	Antimony	12/1/89	Core 14 Segment 3	1.4	1.45E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.03E+05	
U110	Antimony	12/1/89	Core Composite 13	1.3	1.56E+02	ug/g	I	DUPLICATE	U110 Core Data	Sb	2.03E+05	
t107	Antimony	3/1/93	B08V44	1.1	1.83E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.01E+05	
U110	Antimony	12/1/89	Core Composite 13	1.3	1.54E+02	ug/g	I	PRIMARY	U110 Core Data	Sb	2.00E+05	
t107	Antimony	3/1/93	B08V44	1.1	1.81E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.99E+05	
t107	Antimony	3/1/93	B08VFO	1.38	1.42E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.96E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.60E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.84E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.58E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.82E+05	
B110	Antimony	4/1/90	Core Composite 4	1.36	1.32E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.79E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.53E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.76E+05	
t107	Antimony	3/1/93	B08VFO	1.38	1.27E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.75E+05	
T111	Sb	8/7/92	J-470		109	ugm/gm	G	Sludge/Composite	Braun	Sb	1.74E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.51E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.74E+05	
t107	Antimony	3/1/93	B08TZ2	1.29	1.34E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.73E+05	
t107	Antimony	3/1/93	B08V39	1.57	1.08E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.70E+05	
B110	Antimony	4/1/90	Core Composite 2	1.33	1.27E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.69E+05	
B110	Antimony	4/1/90	Core Composite 18	1.37	1.17E+02	ug/g	I	PRIMARY	B110 Core Data	Sb	1.60E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.38E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.59E+05	
t107	Antimony	3/1/93	B08TZ2	1.29	1.23E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.59E+05	
t107	Antimony	3/1/93	B08VFO	1.38	1.13E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.56E+05	
t107	Antimony	3/1/93	B08TZ2	1.29	1.13E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.46E+05	
T111	Sb	8/7/92	J-466		88.6	ugm/gm	G	Sludge/Composite	Braun	Sb	1.42E+05	
B110	Antimony	4/1/90	Core Composite 10	1.34	1.00E+02	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.34E+05	
t107	Antimony	3/1/93	B08V43	1.15	1.15E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.32E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
t107	Antimony	3/1/93	B08VR2	1.735	7.52E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.30E+05
t107	Antimony	3/1/93	B08VR2	1.735	7.51E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.30E+05
B110	Antimony	4/1/90	Core Composite 4	1.36	9.43E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	1.28E+05
t107	Antimony	3/1/93	B08V43	1.15	1.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.27E+05
B110	Antimony	4/1/90	Core Composite 3	1.36	9.29E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.26E+05
t107	Antimony	3/1/93	B08TZ3	0.95	1.28E+02	ug/g	S	PRIMARY RESULT	TCD	Sb	1.22E+05
t107	Antimony	3/1/93	B08V39	1.57	7.74E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.22E+05
s104	Antimony	8/1/92	B08TJ4	1.6	7.55E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	1.21E+05
s104	Antimony	8/1/92	B08TJ4		7.55E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	1.21E+05
s104	Antimony	8/1/92	B08TJ4	1.6	7.51E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	1.20E+05
s104	Antimony	8/1/92	B08TJ4		7.51E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	1.20E+05
s104	Antimony	8/1/92	B08TJ5	1.6	7.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	1.19E+05
s104	Antimony	8/1/92	B08TJ5		7.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	1.19E+05
s104	Antimony	8/1/92	B08TJ5	1.6	7.42E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	1.19E+05
s104	Antimony	8/1/92	B08TJ5		7.42E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	1.19E+05
t107	Antimony	3/1/93	B08TZ2	1.29	8.74E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.13E+05
B110	Antimony	4/1/90	Core Composite 2	1.33	8.45E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	1.12E+05
t107	Antimony	3/1/93	B08TZ3	0.95	1.18E+02	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.12E+05
B110	Antimony	4/1/90	Core Composite 4	1.36	8.12E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.10E+05
t107	Antimony	3/1/93	B08TZ2	1.29	8.43E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.09E+05
t107	Antimony	3/1/93	B08VD9	1.305	8.28E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.08E+05
t107	Antimony	3/1/93	B08TZ2	1.29	8.04E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.04E+05
t107	Antimony	3/1/93	B08V44	1.1	9.42E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.04E+05
t107	Antimony	3/1/93	B08VF0	1.38	7.50E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.04E+05
t107	Antimony	3/1/93	B08TZ2	1.29	7.83E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.01E+05
t107	Antimony	3/1/93	B08VD9	1.305	7.57E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	9.88E+04
B110	Antimony	4/1/90	Core Composite 2	1.33	7.27E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	9.68E+04
B110	Antimony	4/1/90	Core Composite 1	1.36	7.06E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	9.60E+04
t105	Antimony	5/28/93	B08WT2	0.89	1.04E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sb	9.26E+04
t105	Antimony	5/28/93	B08WT2	0.89	1.03E+02	mg/kg	S	PRIMARY RESULT	TCD	Sb	9.17E+04
t107	Antimony	3/1/93	B08VB9	1.19	7.58E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	9.02E+04
t107	Antimony	3/1/93	B08VB9	1.19	7.54E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	8.97E+04
c112	Antimony	3/1/92	B08DM7	1.6	5.54E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	8.86E+04
t107	Antimony	3/1/93	B08TZ2	1.29	6.84E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	8.82E+04
c112	Antimony	3/1/92	B08DM7	1.6	5.37E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	8.59E+04
s104	Antimony	8/1/92	B08S50	1.6	5.31E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	8.50E+04
s104	Antimony	8/1/92	B08S50		5.31E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	8.50E+04
s104	Antimony	8/1/92	B08S50	1.6	5.26E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	8.42E+04
s104	Antimony	8/1/92	B08S50		5.26E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	8.42E+04
c109	Antimony	9/1/92	B08T17	1.2	7.00E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	8.40E+04

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Antimony	3/1/92	B08DM7	1.6	5.17E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	8.27E+04	
t107	Antimony	3/1/93	B08V44	1.1	7.34E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	8.07E+04	
B110	Antimony	4/1/90	Core Composite 10	1.34	5.87E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	7.86E+04	
t107	Antimony	3/1/93	B08T22	1.29	6.02E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	7.77E+04	
c112	Antimony	3/1/92	B08DM7	1.6	4.81E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	7.70E+04	
B110	Antimony	4/1/90	Core Composite 2	1.33	5.63E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	7.49E+04	
c112	Antimony	3/1/92	B08DM7	1.6	4.54E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	7.26E+04	
c112	Antimony	3/1/92	B08DM7	1.6	4.52E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	7.23E+04	
c112	Antimony	3/1/92	B08DM7	1.6	4.38E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	7.01E+04	
B110	Antimony	4/1/90	Core Composite 10	1.34	5.13E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	6.88E+04	
s104	Antimony	8/1/92	B08S48	1.6	4.13E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.61E+04	
s104	Antimony	8/1/92	B08S48		4.13E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.61E+04	
t102	Antimony	3/1/93	B08732	1.32	5.00E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	6.60E+04	
s104	Antimony	8/1/92	B08TL4	1.6	4.05E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.48E+04	
s104	Antimony	8/1/92	B08TL4		4.05E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.48E+04	
c109	Antimony	9/1/92	B08T17	1.2	5.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	6.48E+04	
t107	Antimony	3/1/93	B08VB9	1.19	5.36E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	6.38E+04	
s104	Antimony	8/1/92	B08TL3	1.6	3.81E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.10E+04	
s104	Antimony	8/1/92	B08TL3		3.81E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	6.10E+04	
s104	Antimony	8/1/92	B08TF7	1.6	3.73E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.97E+04	
s104	Antimony	8/1/92	B08TF7		3.73E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.97E+04	
BX107	Sb	10/20/92	J924-AV		37.29475	ugm/gm	G	Sludge/Composite	Braun	Sb	5.97E+04	
BX107	Sb	10/20/92	J926-AV		37.29475	ugm/gm	G	Sludge/Composite	Braun	Sb	5.97E+04	
s104	Antimony	8/1/92	B08TF6	1.6	3.72E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.95E+04	
s104	Antimony	8/1/92	B08TF7	1.6	3.72E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.95E+04	
s104	Antimony	8/1/92	B08TF6		3.72E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.95E+04	
s104	Antimony	8/1/92	B08TF7		3.72E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.95E+04	
BX107	Sb	10/20/92	J927-AV		37.1833	ugm/gm	G	Sludge/Composite	Braun	Sb	5.95E+04	
s104	Antimony	8/1/92	B08TF6	1.6	3.70E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.92E+04	
s104	Antimony	8/1/92	B08TF6		3.70E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.92E+04	
B110	Antimony	4/1/90	Core Composite 10	1.34	4.40E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	5.90E+04	
s104	Antimony	8/1/92	B08TL3	1.6	3.63E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.81E+04	
s104	Antimony	8/1/92	B08TL4	1.6	3.63E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.81E+04	
s104	Antimony	8/1/92	B08TL3		3.63E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.81E+04	
s104	Antimony	8/1/92	B08TL4		3.63E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.81E+04	
s104	Antimony	8/1/92	B08S50	1.6	3.63E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.81E+04	
s104	Antimony	8/1/92	B08S50		3.63E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.81E+04	
BX107	Sb	10/20/92	J925-AV		36.3	ugm/gm	G	Sludge/Composite	Braun	Sb	5.81E+04	
s104	Antimony	8/1/92	B08TL3	1.6	3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04	
s104	Antimony	8/1/92	B08TL4	1.6	3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04	

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
s104	Antimony	8/1/92	B08TF7	1.6	3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04			
s104	Antimony	8/1/92	B08TF7		3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04			
s104	Antimony	8/1/92	B08TL3		3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04			
s104	Antimony	8/1/92	B08TL4		3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.79E+04			
s104	Antimony	8/1/92	B08TJ5	1.6	3.60E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.76E+04			
s104	Antimony	8/1/92	B08TJ5		3.60E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.76E+04			
s104	Antimony	8/1/92	B08TJ5	1.6	3.60E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.76E+04			
s104	Antimony	8/1/92	B08TJ5		3.60E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.76E+04			
s104	Antimony	8/1/92	B08TL3	1.6	3.58E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.73E+04			
s104	Antimony	8/1/92	B08TL3		3.58E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.73E+04			
s104	Antimony	8/1/92	B08TJ4	1.6	3.56E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.70E+04			
s104	Antimony	8/1/92	B08TJ4		3.56E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.70E+04			
s104	Antimony	8/1/92	B08TJ4	1.6	3.56E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.70E+04			
s104	Antimony	8/1/92	B08TJ4		3.56E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.70E+04			
s104	Antimony	8/1/92	B08TF6	1.6	3.54E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.66E+04			
s104	Antimony	8/1/92	B08TF6		3.54E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.66E+04			
BX107	Sb	10/20/92	J925-AV		35.15	ugm/gm	G	Sludge/Composite	Braun	Sb	5.62E+04			
s104	Antimony	8/1/92	B08TJ5	1.6	3.51E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.62E+04			
s104	Antimony	8/1/92	B08TJ5		3.51E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.62E+04			
s104	Antimony	8/1/92	B08TF6	1.6	3.51E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.62E+04			
s104	Antimony	8/1/92	B08TF6		3.51E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.62E+04			
s104	Antimony	8/1/92	B08TF7	1.6	3.50E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.60E+04			
s104	Antimony	8/1/92	B08TF7		3.50E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.60E+04			
s104	Antimony	8/1/92	B08S48	1.6	3.50E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.60E+04			
s104	Antimony	8/1/92	B08S48	1.6	3.50E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.60E+04			
s104	Antimony	8/1/92	B08S48		3.50E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.60E+04			
s104	Antimony	8/1/92	B08S48		3.50E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.60E+04			
c109	Antimony	9/1/92	B08T16	1.3	4.30E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	5.59E+04			
c109	Antimony	9/1/92	B08T16	1.3	4.30E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	5.59E+04			
s104	Antimony	8/1/92	B08TJ5	1.6	3.49E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.58E+04			
s104	Antimony	8/1/92	B08TJ5		3.49E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.58E+04			
BX107	Sb	10/20/92	J926-AV		34.9	ugm/gm	G	Sludge/Composite	Braun	Sb	5.58E+04			
s104	Antimony	8/1/92	B08S48	1.6	3.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08S50	1.6	3.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08S48		3.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08S50		3.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08TL4	1.6	3.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08TL4		3.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.52E+04			
s104	Antimony	8/1/92	B08TJ4	1.6	3.44E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.50E+04			
s104	Antimony	8/1/92	B08TJ4		3.44E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	5.50E+04			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
 ASA Value: 1.46E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c109	Antimony	9/1/92	B08T16	1.3	4.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	5.46E+04	
BX107	Sb	10/20/92	J924-AV		34.1	ugm/gm	G	Sludge/Composite	Braun	Sb	5.46E+04	
s104	Antimony	8/1/92	B08TJ4	1.6	3.40E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.44E+04	
s104	Antimony	8/1/92	B08TJ4		3.40E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	5.44E+04	
BX107	Sb	10/20/92	J927-AV		33.8	ugm/gm	G	Sludge/Composite	Braun	Sb	5.41E+04	
t102	Antimony	3/1/93	B08732	1.32	4.00E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	5.28E+04	
c109	Antimony	9/1/92	B08T17	1.2	4.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	5.04E+04	
c109	Antimony	9/1/92	B08T17	1.2	4.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	5.04E+04	
c109	Antimony	9/1/92	B08T16	1.3	3.70E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.81E+04	
t111	Antimony	11/1/91	B08ST9	1.11	4.33E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	4.81E+04	
B110	Antimony	4/1/90	Core Composite 4	1.36	3.51E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	4.77E+04	
t111	Antimony	11/1/91	B08ST9	1.11	4.29E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.76E+04	
t107	Antimony	3/1/93	B08VB9	1.19	3.74E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.45E+04	
c109	Antimony	9/1/92	B08T17	1.2	3.70E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.44E+04	
t111	Antimony	11/1/91	B08ST9	1.11	3.71E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.12E+04	
T111	Sb	8/7/92	J-404	1.11	37.1	ugm/gm	G	Sludge	Braun	Sb	4.12E+04	
t107	Antimony	3/1/93	B08VF0	1.38	2.95E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.07E+04	
c112	Antimony	3/1/92	B08DM7	1.6	2.52E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	4.03E+04	
t111	Antimony	11/1/91	B08SV7	1.09	3.66E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.99E+04	
t104	Antimony	8/26/92	B08S09	1.13	3.53E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	3.99E+04	
t104	Antimony	8/26/92	B08S09	1.13	3.52E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	3.98E+04	
t104	Antimony	8/26/92	B08S09	1.13	3.50E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	3.96E+04	
t104	Antimony	8/26/92	B08S09	1.13	3.47E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	3.92E+04	
c112	Antimony	3/1/92	B08DN6	1.3	2.82E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.67E+04	
s104	Antimony	8/1/92	B08S46	1.6	2.20E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	3.52E+04	
s104	Antimony	8/1/92	B08S46		2.20E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	3.52E+04	
c112	Antimony	3/1/92	B08DN6	1.3	2.65E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.45E+04	
t107	Antimony	3/1/93	B08VF0	1.38	2.43E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.35E+04	
t111	Antimony	11/1/91	B08ST9	1.11	3.00E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	3.33E+04	
T111	Sb	8/7/92	J-410	1.06	31.3	ugm/gm	G	Sludge	Braun	Sb	3.32E+04	
t111	Antimony	11/1/91	B08SX5	1.06	3.11E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.30E+04	
B110	Antimony	4/1/90	Core Composite 9	1.32	2.49E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	3.28E+04	
c112	Antimony	3/1/92	B08DM7	1.6	2.05E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	3.28E+04	
c112	Antimony	3/1/92	B08DM7	1.6	2.02E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.23E+04	
t111	Antimony	11/1/91	B08SV7	1.09	2.77E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	3.02E+04	
c109	Antimony	9/1/92	B08T17	1.2	2.50E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	3.00E+04	
T111	Sb	8/7/92	J-408	1.09	26.8	ugm/gm	G	Sludge	Braun	Sb	2.92E+04	
t111	Antimony	11/1/91	B08SV7	1.09	2.68E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.92E+04	
t107	Antimony	3/1/93	B08VF0	1.38	2.09E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.88E+04	
t107	Antimony	3/1/93	B08VF0	1.38	2.08E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.87E+04	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Antimony Single-Shell Tank Solids [Sketch ES-VAL-CC36]
ASA Value: 1.46E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
c112	Antimony	3/1/92	B08DN6	1.3	2.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.86E+04
c112	Antimony	3/1/92	B08DN6	1.3	2.16E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.81E+04
t107	Antimony	3/1/93	B08VFO	1.315	2.07E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.72E+04
t111	Antimony	11/1/91	B08ST5	0.88	2.85E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.51E+04
T111	Sb	8/7/92	J-398	0.88	28.5	ugm/gm	G	Sludge	Braun	Sb	2.51E+04
c112	Antimony	3/1/92	B08DM7	1.6	1.55E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.48E+04
t111	Antimony	11/1/91	B08SX5	1.06	2.33E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.47E+04
t111	Antimony	11/1/91	B08ST7	0.93	2.64E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.46E+04
t111	Antimony	11/1/91	B08ST5	0.88	2.78E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.45E+04
s104	Antimony	8/1/92	B08S46	1.6	1.48E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.37E+04
s104	Antimony	8/1/92	B08S46		1.48E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.37E+04
t111	Antimony	11/1/91	B08ST7	0.93	2.52E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.34E+04
t111	Antimony	11/1/91	B08SV7	1.09	2.13E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.32E+04
s104	Antimony	8/1/92	B08S46	1.6	1.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.32E+04
s104	Antimony	8/1/92	B08S46		1.45E+01	mg/kg	S	DUPLICATE RESULT	TCD	Sb	2.32E+04
s104	Antimony	8/1/92	B08S46	1.6	1.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.32E+04
s104	Antimony	8/1/92	B08S46		1.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Sb	2.32E+04
t105	Antimony	5/28/93	B08WT2	0.89	2.54E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.26E+04
t111	Antimony	11/1/91	B08SX5	1.06	2.13E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	2.26E+04
t111	Antimony	11/1/91	B08SX5	1.06	2.01E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	2.13E+04
B110	Antimony	4/1/90	Core Composite 9	1.32	1.49E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	1.97E+04
B110	Antimony	4/1/90	Core Composite 10	1.34	1.47E+01	ug/g	I	DUPLICATE	B110 Core Data	Sb	1.97E+04
B110	Antimony	4/1/90	Core Composite 10	1.34	1.47E+01	ug/g	I	PRIMARY	B110 Core Data	Sb	1.97E+04
t105	Antimony	5/28/93	B08WT2	0.89	2.20E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.96E+04
t111	Antimony	11/1/91	B08ST7	0.93	1.95E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.81E+04
t111	Antimony	11/1/91	B08ST5	0.88	2.04E+01	ug/g	S	DUPLICATE RESULT	TCD	Sb	1.80E+04
t111	Antimony	11/1/91	B08ST5	0.88	1.97E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.73E+04
t111	Antimony	11/1/91	B08ST7	0.93	1.69E+01	ug/g	S	PRIMARY RESULT	TCD	Sb	1.57E+04
T111	Sb	8/7/92	J-402	0.93	16.9	ugm/gm	G	Sludge	Braun	Sb	1.57E+04
B110	Antimony	4/1/90	Core Composite 18	1.37	9.94E+00	ug/g	I	PRIMARY	B110 Core Data	Sb	1.36E+04
B110	Antimony	4/1/90	Core Composite 3	1.36	9.78E+00	ug/g	I	PRIMARY	B110 Core Data	Sb	1.33E+04
B110	Antimony	4/1/90	Core Composite 9	1.32	9.95E+00	ug/g	I	PRIMARY	B110 Core Data	Sb	1.31E+04
B110	Antimony	4/1/90	Core Composite 18	1.37	7.56E+00	ug/g	I	PRIMARY	B110 Core Data	Sb	1.04E+04
Minimum Plot Limit: 1.00E+04 ug/L											
B110	Antimony	4/1/90	Core Composite 18	1.37	4.18E+00	ug/g	I	DUPLICATE	B110 Core Data	Sb	5.73E+03
B110	Antimony	4/1/90	Core Composite 18	1.37	4.12E+00	ug/g	I	DUPLICATE	B110 Core Data	Sb	5.64E+03
B110	Antimony	4/1/90	Core Composite 9	1.32	2.49E+00	ug/g	I	DUPLICATE	B110 Core Data	Sb	3.28E+03
C102	Sb	2/1/91	2		2.00E+00	mg/kg	S	water leach	RAW	Sb	3.20E+03
C102	Sb	2/1/91	2		1.00E-01	ug/mL	S	water leach	RAW	Sb	1.00E+02

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Selenium Single-Shell Tank Liquids [Sketch ES-VAL-CC37]

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ASA Value: 8.24E+04 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	Se	4/1/90	RAT-C106-4A		1400	ugm/gm	U	Unknown	Braun	Se	1.54E+06	2
C105	Se	4/1/90	RAT-C105-4A		1000	ugm/gm	U	Unknown	Braun	Se	1.10E+06	2
ASA Value: 8.24E+04 ug/L												
c110	Selenium	4/23/92	B08VH6	1.18	8.24E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	8.24E+04	*
c110	Selenium	4/23/92	B08VH6	1.18	8.24E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	8.24E+04	
C110	Se	11/1/91	1	1.18	8.24E+01	ug/ml	L	core 39 seg. 3	RAW	Se	8.24E+04	
Preliminary ASA Value: 7.97E+04 ug/L												
c110	Selenium	4/23/92	B08VH6	1.18	7.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	7.70E+04	
c110	Selenium	4/23/92	B08VH6	1.18	7.70E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	7.70E+04	
C110	Se	11/1/91	2	1.18	7.70E+01	ug/ml	L	core 39 seg. 3	RAW	Se	7.70E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.99E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	2.99E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.99E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	2.99E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.99E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	2.99E+04	
C110	Se	11/1/91	2	1.1	2.99E+01	ug/ml	L	core 38 seg. 4	RAW	Se	2.99E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.58E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	2.58E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.58E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	2.58E+04	
c110	Selenium	4/23/92	B08VP9	1.1	2.58E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	2.58E+04	
C110	Se	11/1/91	1	1.1	2.58E+01	ug/ml	L	core 38 seg. 4	RAW	Se	2.58E+04	
c110	Selenium	4/23/92	B08VM5	1	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VM5	1	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VH6	1.18	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VH6	1.18	1.73E+01	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.73E+04	
c110	Selenium	4/23/92	B08VM5	1	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VM5	1	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VP9	1.1	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VH6	1.18	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
c110	Selenium	4/23/92	B08VH6	1.18	1.72E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.72E+04	
t104	Selenium	8/26/92	B08TQ7	1.1	1.42E+01	ug/mL	L	PRIMARY RESULT	TCD	Se	1.42E+04	
BY103	Se	11/14/90			8.00E+00	mg/L	P	Supernatant	RAW	Se	8.00E+03	
BY103	Se	6/3/91			7.60E-03	g/L	L	Drainable Liquid	Wastren	Se	7.60E+03	
BY103	Se	6/3/91	R-8088	1.45	7.6	mg/l	P	Supernate	Braun	Se	7.60E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Liquids [Sketch ES-VAL-CC37]
 ASA Value: 8.24E+04 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L		
BY103	Se	6/3/91	R-8088	1.45	7.60E+00	mg/L	P	Supernatant	RAW	Se	7.60E+03		
c110	Selenium	4/23/92	B08VM5	1	5.09E+00	ug/mL	L	DUPLICATE RESULT	TCD	Se	5.09E+03		
c110	Selenium	4/23/92	B08VM5	1	5.09E+00	ug/mL	L	DUPLICATE RESULT	TCD	Se	5.09E+03		
C110	Se	11/1/91	2	1	5.09E+00	ug/ml	L	core 37 seg. 3	RAW	Se	5.09E+03		
c110	Selenium	4/23/92	B08VM5	1	4.15E+00	ug/mL	L	PRIMARY RESULT	TCD	Se	4.15E+03		
c110	Selenium	4/23/92	B08VM5	1	4.15E+00	ug/mL	L	PRIMARY RESULT	TCD	Se	4.15E+03		
C110	Se	11/1/91	1	1	4.15E+00	ug/ml	L	core 37 seg. 3	RAW	Se	4.15E+03		
t107	Selenium	3/1/93	B08V16	1.02	1.41E+00	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.41E+03		
t107	Selenium	3/1/93	B08V16	1.02	1.41E+00	ug/mL	L	DUPLICATE RESULT	TCD	Se	1.41E+03		
t107	Selenium	3/1/93	B08V16	1.02	1.41E+00	ug/mL	L	PRIMARY RESULT	TCD	Se	1.41E+03		
t107	Selenium	3/1/93	B08V16	1.02	1.41E+00	ug/mL	L	PRIMARY RESULT	TCD	Se	1.41E+03		
t107	Selenium	3/1/93	B08V58	1.2	1.41E+00	ug/mL	L	PRIMARY RESULT	TCD	Se	1.41E+03		
c112	Selenium	3/1/92	B08DZ5	1.4	7.00E-01	ug/g	L	DUPLICATE RESULT	TCD	Se	9.80E+02		
c112	Selenium	3/1/92	B08DZ5	1.4	6.00E-01	ug/g	L	PRIMARY RESULT	TCD	Se	8.40E+02		
BY106	Se	6/3/91	R-8093	1.47	0.4	mg/l	P	Supernate	Braun	Se	4.00E+02		
BY106	Se	11/20/90	R8083		4.00E-01	mg/L	P	Supernatant	RAW	Se	4.00E+02		
BY106	Se	6/3/91	R-8093	1.47	4.00E-01	mg/L	P	Supernatant	RAW	Se	4.00E+02		
BY106	Se	6/3/91			3.50E-04	g/L	L	Drainable Liquid	Wastren	Se	3.50E+02		
BY106	Se	6/3/91	R-8083	1.46	0.35	mg/l	P	Supernate	Braun	Se	3.50E+02		
BY106	Se	6/3/91	R-8083	1.46	3.50E-01	mg/L	P	Supernatant	RAW	Se	3.50E+02		
BY102	Se	6/3/91	R-8091	1.41	0.31	mg/l	P	Supernate	Braun	Se	3.10E+02		
BY102	Se	6/3/91	R-8091	1.41	3.10E-01	mg/L	P	Supernatant	RAW	Se	3.10E+02		
BY109	Se	6/3/91	R-8084	1.3	0.229	mg/l	P	Supernate	Braun	Se	2.29E+02		
BY109	Se	6/3/91	R-8084	1.3	2.29E-01	mg/L	P	Supernatant	RAW	Se	2.29E+02		
C110	Se	6/3/91			2.00E-04	g/L	P	Supernate	Wastren	Se	2.00E+02		
C110	Se	6/3/91	R-8087	1.2	0.2	mg/l	P	Supernate	Braun	Se	2.00E+02		
BY109	Se	11/20/90	R8084	1.37	2.00E-01	mg/L	P	Supernatant	RAW	Se	2.00E+02		
C110	Se	11/20/90	8087	1.2	2.00E-01	mg/L	p	supernate	RAW	Se	2.00E+02		
BY109	Se	6/3/91			1.47E-04	g/L	P	Supernate	Wastren	Se	1.47E+02		
BY109	Se	6/3/91	R-8094	1.4	0.147	mg/l	P	Supernate	Braun	Se	1.47E+02		
BY109	Se	6/3/91	R-8094	1.4	1.47E-01	mg/L	P	Supernatant	RAW	Se	1.47E+02		
BY102	Se	6/3/91			1.20E-04	g/L	P	Supernate	Wastren	Se	1.20E+02		
BY102	Se	6/3/91	R-8081	1.42	0.12	mg/l	P	Supernate	Braun	Se	1.20E+02		
BY102	Se	6/3/91	R-8081	1.42	1.20E-01	mg/L	P	Supernatant	RAW	Se	1.20E+02		
BY102	Se	11/20/90	R-8081		1.00E-01	mg/L	P	Supernatant	RAW	Se	1.00E+02		
BY105	Se	11/20/90	R-8082		1.00E-01	mg/L	P	Supernatant	RAW	Se	1.00E+02		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Liquids [Sketch ES-VAL-CC37]
 ASA Value: 8.24E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Selenium	4/23/92	B08VM5	1	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VM5	1	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VP9	1.1	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VP9	1.1	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VP9	1.1	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VH6	1.18	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
c110	Selenium	4/23/92	B08VH6	1.18	7.10E-02	ug/mL	L	PRIMARY RESULT	TCD	Se	7.10E+01	
BY105	Se	6/3/91			7.00E-05	g/L	L	Drainable Liquid	Wastren	Se	7.00E+01	
BY105	Se	6/3/91	R-8092	1.4	0.07	mg/l	P	Supernate	Braun	Se	7.00E+01	
BY105	Se	6/3/91	R-8092	1.4	7.00E-02	mg/L	P	Supernatant	RAW	Se	7.00E+01	
c110	Selenium	4/23/92	B08VM5	1	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VM5	1	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VP9	1.1	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VP9	1.1	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VP9	1.1	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VH6	1.18	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
c110	Selenium	4/23/92	B08VH6	1.18	6.70E-02	ug/mL	L	DUPLICATE RESULT	TCD	Se	6.70E+01	
BY105	Se	6/3/91	R-8082	1.38	0.06	mg/l	P	Supernate	Braun	Se	6.00E+01	
BY105	Se	6/3/91	R-8082	1.38	6.00E-02	mg/L	P	Supernatant	RAW	Se	6.00E+01	
C102	Se	6/3/91			4.00E-05	g/L	P	Supernate	Wastren	Se	4.00E+01	
C102	Se	6/3/91	R-8089	1.15	0.04	mg/l	P	Supernate	Braun	Se	4.00E+01	
C102	Se	11/20/90	8089	1.15	4.00E-02	mg/L	P	supernate	RAW	Se	4.00E+01	
C103	Se	4/27/90	8108	1.07	3.00E-02	ppm	P	supernate	RAW	Se	3.21E+01	
C103	Se	6/3/91			3.00E-05	g/L	P	Supernate	Wastren	Se	3.00E+01	
C103	Se	6/3/91	R-8109	1.06	0.03	mg/l	P	Supernate	Braun	Se	3.00E+01	
C103	Se	6/3/91	R-8108	1.07	0.03	mg/l	P	Supernate	Braun	Se	3.00E+01	
Minimum Plot Limit: 1.00E+01 ug/L												
t107	Selenium	3/1/93	B08VB5	1.1	3.52E+00	UG/L	L	DUPLICATE RESULT	TCD	Se	3.52E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L			
ASA Value: 3.50E+06 ug/L														
BY104	Se	11/12/92			3.50E+00	g/L	K	Saltcake	Wastren	Se	3.50E+06	*		
U110	Se	12/15/89	89-070/1/2		2036	ugm/gm	G	Sludge/Composite	Braun	Se	3.26E+06			
BY104	Se	10/26/92	riser 5		2.00E+03	ug/g	S	fusion digestion	RAW	Se	3.20E+06			
BY104	Se	11/12/92	R-1773		2000	ugm/gm	T	Crust	Braun	Se	3.20E+06			
B110	Selenium	4/1/90	Core Composite 3	1.36	2.33E+03	ug/g	I	PRIMARY	B110 Core Data	Se	3.17E+06			
U110	Selenium	12/1/89	Core 12 Segment 2	1.77	1.70E+03	ug/g	I	PRIMARY	U110 Core Data	Se	3.01E+06			
B110	Selenium	4/1/90	Core Composite 3	1.36	2.18E+03	ug/g	I	DUPLICATE	B110 Core Data	Se	2.97E+06			
U110	Selenium	12/1/89	Core Composite 12	1.42	2.04E+03	ug/g	I	PRIMARY	U110 Core Data	Se	2.89E+06			
U110	Se	11/29/89	89-070		1703	ugm/gm	G	Sludge	Braun	Se	2.72E+06			
U110	Selenium	12/1/89	Core 12 Segment 2	1.77	1.51E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	2.67E+06			
U110	Se	11/30/89	89-075		1549	ugm/gm	G	Sludge	Braun	Se	2.48E+06			
C106	Se	4/1/90			2.45E+00	g/L	G	Sludge	Wastren	Se	2.45E+06			
C106	Se	2/1/91			1.40E+03	mg/kg	S	KOH Fusion	RAW	Se	2.24E+06			
U110	Selenium	12/1/89	Core Composite 6	1.54	1.43E+03	ug/g	I	PRIMARY	U110 Core Data	Se	2.20E+06			
U110	Se	12/4/89	89-082/3/4		1299	ugm/gm	G	Sludge/Composite	Braun	Se	2.08E+06			
U110	Selenium	12/1/89	Core 13 Segment 3	1.14	1.70E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.93E+06			
U110	Selenium	12/1/89	Core Composite 7	1.675	1.15E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.93E+06			
B110	Selenium	4/1/90	Core Composite 9	1.32	1.44E+03	ug/g	I	DUPLICATE	B110 Core Data	Se	1.90E+06			
U110	Se	11/29/89	89-072		1188	ugm/gm	G	Sludge	Braun	Se	1.90E+06			
U110	Se	11/15/89	89-046/7/8/9		1150	ugm/gm	G	Sludge/Composite	Braun	Se	1.84E+06			
U110	Selenium	12/1/89	Core 13 Segment 3	1.14	1.55E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.77E+06			
U110	Selenium	12/1/89	Core 12 Segment 4	1.48	1.19E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.76E+06			
C105	Se	4/1/90			1.75E+00	g/L	G	Sludge	Wastren	Se	1.75E+06			
U110	Selenium	12/1/89	Core Composite 7	1.675	1.04E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.74E+06			
U110	Selenium	12/1/89	Core Composite 7	1.675	1.03E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.72E+06			
U110	Selenium	12/1/89	Core Composite 15	1.29	1.30E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.68E+06			
U110	Selenium	12/1/89	Core 15 Segment 3	1.3	1.25E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.62E+06			
C105	Se	2/1/91			1.00E+03	mg/kg	S	KOH Fusion	RAW	Se	1.60E+06			
U110	Selenium	12/1/89	Core Composite 12	1.42	1.08E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.54E+06			
U110	Selenium	12/1/89	Core Composite 13	1.3	1.16E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.50E+06			
U110	Selenium	12/1/89	Core Composite 8		9.37E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.50E+06			
U110	Selenium	12/1/89	Core Composite 5	1.04	1.43E+03	ug/g	I	PRIMARY	U110 Core Data	Se	1.48E+06			
U110	Selenium	12/1/89	Core 7 Segment 1	1.78	8.24E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.47E+06			
B110	Selenium	4/1/90	Core Composite 1	1.36	1.07E+03	ug/g	I	PRIMARY	B110 Core Data	Se	1.46E+06			
B110	Selenium	4/1/90	Core Composite 9	1.32	1.09E+03	ug/g	I	PRIMARY	B110 Core Data	Se	1.43E+06			
B110	Selenium	4/1/90	Core Composite 1	1.36	1.01E+03	ug/g	I	DUPLICATE	B110 Core Data	Se	1.37E+06			
C102	Se	2/1/91			8.50E+02	mg/kg	S	KOH Fusion	RAW	Se	1.36E+06			
U110	Selenium	12/1/89	Core 15 Segment 4	1.31	1.00E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.32E+06			

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Selenium	12/1/89	Core Composite 6	1.54	8.35E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.29E+06	
U110	Selenium	12/1/89	Core Composite 15	1.29	9.89E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.28E+06	
U110	Se	12/4/89	89-083		783	ugm/gm	G	Sludge	Braun	Se	1.25E+06	
U110	Se	11/10/89	89-043		761	ugm/gm	G	Sludge	Braun	Se	1.22E+06	
C102	Se	2/1/91			7.60E+02	mg/kg	S	Na2O2 Fusion	RAW	Se	1.22E+06	
U110	Selenium	12/1/89	Core Composite 5	1.04	1.17E+03	ug/g	I	DUPLICATE	U110 Core Data	Se	1.21E+06	
U110	Selenium	12/1/89	Core 6 Segment 2	1.59	7.61E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.21E+06	
U110	Se	12/4/89	89-084		752	ugm/gm	G	Sludge	Braun	Se	1.20E+06	
U110	Selenium	12/1/89	Core Composite 13	1.3	9.21E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.20E+06	
U110	Selenium	12/1/89	Core Composite 7	1.675	7.06E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.18E+06	
c112	Selenium	3/1/92	B08DN8	1.6	7.34E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	1.17E+06	
U110	Selenium	12/1/89	Core Composite 8		7.32E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.17E+06	
U110	Selenium	12/1/89	Core Composite 12	1.42	7.79E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.11E+06	
U110	Selenium	12/1/89	Core Composite 6	1.54	6.95E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.07E+06	
c112	Selenium	3/1/92	B08DN8	1.6	6.63E+02	ug/g	S	PRIMARY RESULT	TCD	Se	1.06E+06	
U110	Selenium	12/1/89	Core 12 Segment 4	1.48	7.03E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.04E+06	
U110	Selenium	12/1/89	Core Composite 6	1.54	6.73E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.04E+06	
U110	Selenium	12/1/89	Core 15 Segment 3	1.3	7.83E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.02E+06	
U110	Selenium	12/1/89	Core Composite 14	1.48	6.70E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	9.92E+05	
U110	Selenium	12/1/89	Core Composite 5	1.04	9.48E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	9.86E+05	
U110	Selenium	12/1/89	Core 15 Segment 4	1.31	7.52E+02	ug/g	I	PRIMARY	U110 Core Data	Se	9.85E+05	
U110	Selenium	12/1/89	Core Composite 14	1.48	6.58E+02	ug/g	I	PRIMARY	U110 Core Data	Se	9.74E+05	
U110	Selenium	12/1/89	Core Composite 14	1.48	6.38E+02	ug/g	I	PRIMARY	U110 Core Data	Se	9.45E+05	
U110	Selenium	12/1/89	Core 13 Segment 4	1.46	6.30E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	9.20E+05	
U110	Selenium	12/1/89	Core 14 Segment 2	1.39	6.54E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	9.09E+05	
U110	Selenium	12/1/89	Core Composite 13	1.3	6.77E+02	ug/g	I	PRIMARY	U110 Core Data	Se	8.80E+05	
U110	Selenium	12/1/89	Core Composite 15	1.29	6.77E+02	ug/g	I	PRIMARY	U110 Core Data	Se	8.73E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 2	1.3	6.63E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	8.62E+05	
U110	Selenium	12/1/89	Core 7 Segment 2	1.46	5.82E+02	ug/g	I	PRIMARY	U110 Core Data	Se	8.50E+05	
U110	Selenium	12/1/89	Core Composite 8		5.26E+02	ug/g	I	PRIMARY	U110 Core Data	Se	8.42E+05	
BY104	Se	10/26/92	riser 10b		5.23E+02	ug/g	S	fusion digestion	RAW	Se	8.37E+05	
BY104	Se	11/12/92	R-1775		523	ugm/gm	T	Crust	Braun	Se	8.37E+05	
U110	Se	11/15/89	89-048		517	ugm/gm	G	Sludge	Braun	Se	8.27E+05	
U110	Selenium	12/1/89	Core Composite 5	1.04	7.81E+02	ug/g	I	PRIMARY	U110 Core Data	Se	8.12E+05	
U110	Selenium	12/1/89	Core 7 Segment 3	1.53	5.17E+02	ug/g	I	PRIMARY	U110 Core Data	Se	7.91E+05	
U110	Se	12/3/89	89-078		490	ugm/gm	G	Sludge	Braun	Se	7.84E+05	
B110	Selenium	4/1/90	CORE 1 SEGMENT 5	1.3	5.99E+02	ug/g	I	PRIMARY	B110 Core Data	Se	7.79E+05	
U110	Selenium	12/1/89	Core Composite 12	1.42	5.35E+02	ug/g	I	PRIMARY	U110 Core Data	Se	7.60E+05	
B110	Selenium	4/1/90	Core Composite 4	1.36	5.42E+02	ug/g	I	PRIMARY	B110 Core Data	Se	7.37E+05	
U110	Selenium	12/1/89	Core 7 Segment 1	1.78	4.03E+02	ug/g	I	PRIMARY	U110 Core Data	Se	7.17E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Selenium	12/1/89	Core 14 Segment 4	1.62	4.09E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	6.63E+05	
U110	Se	11/10/89	89-044		411	ugm/gm	G	Sludge	Braun	Se	6.58E+05	
U110	Se	11/15/89	89-046		403	ugm/gm	G	Sludge	Braun	Se	6.45E+05	
B110	Selenium	4/1/90	Core Composite 1	1.36	4.70E+02	ug/g	I	PRIMARY	B110 Core Data	Se	6.39E+05	
U110	Selenium	12/1/89	Core 6 Segment 3	1.22	5.22E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	6.37E+05	
t107	Selenium	3/1/93	B08VD8	1.42	4.28E+02	ug/g	S	PRIMARY RESULT	TCD	Se	6.08E+05	
t107	Selenium	3/1/93	B08VD8	1.42	4.27E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	6.06E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 3	1.3	4.54E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	5.91E+05	
BX107	Se	10/20/92	J925-AV		369	ugm/gm	G	Sludge/Composite	Braun	Se	5.90E+05	
U110	Selenium	12/1/89	Core Composite 12	1.42	4.15E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	5.89E+05	
U110	Selenium	12/1/89	Core 15 Segment 2	1.27	4.63E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	5.88E+05	
U110	Selenium	12/1/89	Core 14 Segment 2	1.39	4.19E+02	ug/g	I	PRIMARY	U110 Core Data	Se	5.82E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 3	1.3	4.42E+02	ug/g	I	PRIMARY	B110 Core Data	Se	5.74E+05	
B110	Selenium	4/1/90	Core Composite 2	1.33	4.20E+02	ug/g	I	PRIMARY	B110 Core Data	Se	5.59E+05	
U110	Selenium	12/1/89	Core Composite 14	1.48	3.64E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	5.38E+05	
B110	Selenium	4/1/90	CORE 1 SEGMENT 4	1.3	4.10E+02	ug/g	I	PRIMARY	B110 Core Data	Se	5.33E+05	
BX107	Se	10/20/92	J927-AV		330.24825	ugm/gm	G	Sludge/Composite	Braun	Se	5.28E+05	
t107	Selenium	3/1/93	B08VB9	1.19	4.30E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	5.12E+05	
t107	Selenium	3/1/93	B08VB9	1.19	4.29E+02	ug/g	S	PRIMARY RESULT	TCD	Se	5.11E+05	
t107	Selenium	3/1/93	B08VB9	1.19	4.29E+02	ug/g	S	PRIMARY RESULT	TCD	Se	5.11E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 4	1.3	3.92E+02	ug/g	I		B110 Core Data	Se	5.09E+05	
U110	Se	12/4/89	89-082		318	ugm/gm	G	Sludge	Braun	Se	5.09E+05	
U110	Selenium	12/1/89	Core 6 Segment 2	1.59	3.16E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	5.02E+05	
U110	Selenium	12/1/89	Core 6 Segment 3	1.22	4.11E+02	ug/g	I	PRIMARY	U110 Core Data	Se	5.01E+05	
BX107	Se	10/20/92	J924-AV		312	ugm/gm	G	Sludge/Composite	Braun	Se	4.99E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 5	1.3	3.78E+02	ug/g	I		B110 Core Data	Se	4.91E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 3	1.3	3.74E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	4.86E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 3	1.3	3.66E+02	ug/g	I	PRIMARY	B110 Core Data	Se	4.76E+05	
BX107	Se	10/20/92	J926-AV		295	ugm/gm	G	Sludge/Composite	Braun	Se	4.72E+05	
U110	Selenium	12/1/89	Core Composite 12	1.42	3.13E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	4.45E+05	
B110	Selenium	4/1/90	Core Composite 18	1.37	3.22E+02	ug/g	I	PRIMARY	B110 Core Data	Se	4.41E+05	
B110	Selenium	4/1/90	Core Composite 2	1.33	3.26E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	4.34E+05	
B110	Selenium	4/1/90	CORE 1 SEGMENT 5	1.3	3.21E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	4.18E+05	
B110	Selenium	4/1/90	CORE 1 SEGMENT 2	1.3	3.20E+02	ug/g	I	PRIMARY	B110 Core Data	Se	4.17E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 5	1.3	3.16E+02	ug/g	I		B110 Core Data	Se	4.11E+05	
U110	Selenium	12/1/89	Core 15 Segment 2	1.27	3.18E+02	ug/g	I	PRIMARY	U110 Core Data	Se	4.04E+05	
bx107	Selenium	6/1/92	B08SD6	0.996	3.99E+02	ug/g	S	PRIMARY RESULT	TCD	Se	3.97E+05	
B110	Selenium	4/1/90	Core Composite 4	1.36	2.92E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	3.97E+05	
c112	Selenium	3/1/92	B08DY1	2	1.98E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	3.96E+05	
B110	Selenium	4/1/90	Core Composite 18	1.37	2.85E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	3.91E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
bx107	Selenium	6/1/92	B08SD6	0.996	3.91E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	3.89E+05	
bx107	Selenium	6/1/92	B08SD6	0.996	3.78E+02	ug/g	S	PRIMARY RESULT	TCD	Se	3.77E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 4	1.3	2.87E+02	ug/g	I		B110 Core Data	Se	3.73E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 2	1.3	2.86E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	3.71E+05	
U110	Selenium	12/1/89	Core 7 Segment 4	1.93	1.92E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.71E+05	
bx107	Selenium	6/1/92	B08SD6	0.996	3.72E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	3.70E+05	
U110	Selenium	12/1/89	Core Composite 13	1.3	2.76E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.59E+05	
U110	Selenium	12/1/89	Core 6 Segment 4	1.8	1.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.55E+05	
c112	Selenium	3/1/92	B08DY1	2	1.77E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	3.53E+05	
B110	Selenium	4/1/90	Core Composite 10	1.34	2.62E+02	ug/g	I	PRIMARY	B110 Core Data	Se	3.51E+05	
U110	Selenium	12/1/89	Core Composite 7	1.675	2.09E+02	ug/g	I	PRIMARY	U110 Core Data	Se	3.50E+05	
U110	Selenium	12/1/89	Core Composite 13	1.3	2.67E+02	ug/g	I	PRIMARY	U110 Core Data	Se	3.47E+05	
U110	Selenium	12/1/89	Core Composite 7	1.675	1.97E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.30E+05	
U110	Selenium	12/1/89	Core 7 Segment 3	1.53	2.13E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.26E+05	
U110	Selenium	12/1/89	Core Composite 15	1.29	2.46E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.17E+05	
U110	Selenium	12/1/89	Core Composite 13	1.3	2.44E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.17E+05	
U110	Selenium	12/1/89	Core 14 Segment 1	1.5	2.10E+02	ug/g	I	PRIMARY	U110 Core Data	Se	3.15E+05	
U110	Selenium	12/1/89	Core 14 Segment 1	1.5	2.10E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.15E+05	
U110	Selenium	12/1/89	Core 7 Segment 4	1.93	1.60E+02	ug/g	I	PRIMARY	U110 Core Data	Se	3.09E+05	
U110	Selenium	12/1/89	Core Composite 6	1.54	1.98E+02	ug/g	I	PRIMARY	U110 Core Data	Se	3.05E+05	
U110	Selenium	12/1/89	Core Composite 6	1.54	1.98E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	3.05E+05	
c112	Selenium	3/1/92	B08DY1	2	1.50E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	2.99E+05	
U110	Selenium	12/1/89	Core 7 Segment 2	1.46	2.03E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	2.96E+05	
U110	Se	12/3/89	89-079		184	ugm/gm	G	Sludge	Braun	Se	2.94E+05	
B110	Selenium	4/1/90	CORE 4 SEGMENT 4	1.3	2.24E+02	ug/g	I		B110 Core Data	Se	2.92E+05	
U110	Selenium	12/1/89	Core 12 Segment 3	1	2.84E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	2.84E+05	
U110	Selenium	12/1/89	Core Composite 5	1.04	2.69E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.80E+05	
U110	Selenium	12/1/89	Core 6 Segment 4	1.8	1.53E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.75E+05	
C102	Se	2/1/91	2		1.70E+02	mg/kg	S	water leach	RAW	Se	2.72E+05	
B110	Selenium	4/1/90	Core Composite 1	1.36	2.00E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	2.71E+05	
B110	Selenium	4/1/90	Core Composite 4	1.36	1.97E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	2.68E+05	
U110	Selenium	12/1/89	Core Composite 8		1.66E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	2.66E+05	
U110	Selenium	12/1/89	Core 13 Segment 4	1.46	1.80E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.63E+05	
U110	Selenium	12/1/89	Core 14 Segment 4	1.62	1.60E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.59E+05	
U110	Selenium	12/1/89	Core 14 Segment 3	1.4	1.84E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.58E+05	
C102	Se	2/1/91	1		1.60E+02	mg/kg	S	Total	RAW	Se	2.56E+05	
C102	Se	2/1/91	1		1.60E+02	mg/kg	S	water leach	RAW	Se	2.56E+05	
U110	Selenium	12/1/89	Core Composite 5	1.04	2.42E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	2.52E+05	
U110	Selenium	12/1/89	Core Composite 15	1.29	1.88E+02	ug/g	I	PRIMARY	U110 Core Data	Se	2.43E+05	
B110	Selenium	4/1/90	Core Composite 1	1.36	1.78E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	2.42E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
U110	Selenium	12/1/89	Core Composite 15	1.29	1.86E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	2.40E+05
c112	Selenium	3/1/92	B08DY1	2	1.17E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.34E+05
B110	Selenium	4/1/90	Core Composite 3	1.36	1.69E+02	ug/g	I	PRIMARY	B110 Core Data	Se	2.29E+05
c112	Selenium	3/1/92	B08DY1	2	1.14E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.29E+05
c112	Selenium	3/1/92	B08DY1	2	1.14E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	2.27E+05
c112	Selenium	3/1/92	B08DM7	1.6	1.39E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.22E+05
t107	Selenium	3/1/93	B08VFO	1.38	1.57E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.17E+05
C102	Se	2/1/91	2		1.35E+02	mg/kg	S	Total	RAW	Se	2.16E+05
C102	Se	2/1/91	2		1.35E+02	mg/kg	S	water leach	RAW	Se	2.16E+05
c112	Selenium	3/1/92	B08DM7	1.6	1.34E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.15E+05
c112	Selenium	3/1/92	B08DY1	2	1.07E+02	ug/g	S	PRIMARY RESULT	TCD	Se	2.14E+05
t107	Selenium	3/1/93	B08VFO	1.38	1.50E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	2.07E+05
c112	Selenium	3/1/92	B08DY1	2	9.84E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.97E+05
t107	Selenium	3/1/93	B08VFO	1.38	1.38E+02	ug/g	S	PRIMARY RESULT	TCD	Se	1.90E+05
t107	Selenium	3/1/93	B08VFO	1.38	1.34E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	1.85E+05
U110	Selenium	12/1/89	Core 12 Segment 3	1	1.80E+02	ug/g	I	PRIMARY	U110 Core Data	Se	1.80E+05
c112	Selenium	3/1/92	B08DM7	1.6	1.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	1.78E+05
c112	Selenium	3/1/92	B08DM7	1.6	1.09E+02	ug/g	S	PRIMARY RESULT	TCD	Se	1.74E+05
t107	Selenium	3/1/93	B08V43	1.15	1.50E+02	ug/g	S	PRIMARY RESULT	TCD	Se	1.73E+05
b202	Selenium	6/7/91	B08SM4	1.35	1.22E+02	mg/kg	S	PRIMARY RESULT	TCD	Se	1.65E+05
b202	Selenium	6/7/91	B08SM4	1.35	1.22E+02	mg/kg	S	PRIMARY RESULT	TCD	Se	1.65E+05
b202	Selenium	6/7/91	B08SM4	1.35	1.17E+02	mg/kg	S	PRIMARY RESULT	TCD	Se	1.58E+05
c112	Selenium	3/1/92	B08DM7	1.6	9.87E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.58E+05
B110	Selenium	4/1/90	Core Composite 9	1.32	1.17E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	1.54E+05
U110	Selenium	12/1/89	Core 14 Segment 3	1.4	1.10E+02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.54E+05
B110	Selenium	4/1/90	Core Composite 10	1.34	1.12E+02	ug/g	I	DUPLICATE	B110 Core Data	Se	1.51E+05
t105	Selenium	5/28/93	B08WT4	2.01	7.47E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.50E+05
s104	Selenium	8/1/92	B08TL4	1.6	9.18E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.47E+05
s104	Selenium	8/1/92	B08TL4		9.18E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.47E+05
t107	Selenium	3/1/93	B08V43	1.15	1.22E+02	ug/g	S	PRIMARY RESULT	TCD	Se	1.40E+05
s104	Selenium	8/1/92	B08S50	1.6	8.47E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.36E+05
s104	Selenium	8/1/92	B08S50		8.47E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.36E+05
t107	Selenium	3/1/93	B08V43	1.15	1.14E+02	ug/g	S	DUPLICATE RESULT	TCD	Se	1.31E+05
S104	Se	4/13/90			1.31E+01	g/L	G	Sludge	Wastren	Se	1.31E+05
t105	Selenium	5/28/93	B08WT4	2.01	6.46E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.30E+05
t107	Selenium	3/1/93	B08T22	1.29	9.91E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.28E+05
b202	Selenium	6/7/91	B08SM4	1.35	9.41E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.27E+05
t105	Selenium	5/28/93	B08WT4	2.01	6.29E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.26E+05
t105	Selenium	5/28/93	B08WT4	2.01	6.29E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.26E+05
t105	Selenium	5/28/93	B08WT4	2.01	6.27E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.26E+05

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Selenium	5/28/93	B08WT4	2.01	6.26E+01	ug/g		S	DUPLICATE RESULT	TCD	Se	1.26E+05	
t105	Selenium	5/28/93	B08WT4	2.01	6.24E+01	ug/g		S	PRIMARY RESULT	TCD	Se	1.25E+05	
t107	Selenium	3/1/93	B08TZ2	1.29	9.71E+01	ug/g		S	PRIMARY RESULT	TCD	Se	1.25E+05	
t105	Selenium	5/28/93	B08WT4	2.01	6.20E+01	ug/g		S	PRIMARY RESULT	TCD	Se	1.25E+05	
B110	Selenium	4/1/90	CORE 2 SEGMENT 2	1.24	9.98E+01	ug/g		I	DUPLICATE	B110 Core Data	Se	1.24E+05	
t107	Selenium	3/1/93	B08VR2	1.735	6.98E+01	ug/g		S	PRIMARY RESULT	TCD	Se	1.21E+05	
t107	Selenium	3/1/93	B08VR2	1.735	6.97E+01	ug/g		S	DUPLICATE RESULT	TCD	Se	1.21E+05	
b202	Selenium	6/7/91	B0BC06	0.99	1.22E+02	mg/kg		S	PRIMARY RESULT	TCD	Se	1.21E+05	
B110	Selenium	4/1/90	Core Composite 9	1.32	8.96E+01	ug/g		I	PRIMARY	B110 Core Data	Se	1.18E+05	
B110	Selenium	4/1/90	CORE 9 SEGMENT 5	1.24	9.45E+01	ug/g		I		B110 Core Data	Se	1.17E+05	
B110	Selenium	4/1/90	CORE 9 SEGMENT 5	1.24	9.45E+01	ug/g		I		B110 Core Data	Se	1.17E+05	
B110	Selenium	4/1/90	Core Composite 18	1.37	8.29E+01	ug/g		I	DUPLICATE	B110 Core Data	Se	1.14E+05	
s104	Selenium	8/1/92	B08TJ4	1.6	7.01E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.12E+05	
s104	Selenium	8/1/92	B08TJ4		7.01E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.12E+05	
s104	Selenium	8/1/92	B08TJ4	1.6	6.97E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.12E+05	
s104	Selenium	8/1/92	B08TJ4		6.97E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.12E+05	
s104	Selenium	8/1/92	B08TJ5	1.6	6.91E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.11E+05	
s104	Selenium	8/1/92	B08TJ5		6.91E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.11E+05	
t107	Selenium	3/1/93	B08V39	1.57	7.02E+01	ug/g		S	DUPLICATE RESULT	TCD	Se	1.10E+05	
t107	Selenium	3/1/93	B08V39	1.57	7.02E+01	ug/g		S	PRIMARY RESULT	TCD	Se	1.10E+05	
s104	Selenium	8/1/92	B08TJ5	1.6	6.88E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.10E+05	
s104	Selenium	8/1/92	B08TJ5		6.88E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.10E+05	
t107	Selenium	3/1/93	B08TZ2	1.29	8.53E+01	ug/g		S	DUPLICATE RESULT	TCD	Se	1.10E+05	
BX107	Se	10/20/92	J927-AV		68.22345	ugm/gm		G	Sludge/Composite	Braun	Se	1.09E+05	
b202	Selenium	6/7/91	B08SM4	1.35	7.99E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.08E+05	
b202	Selenium	6/7/91	B0BC06	0.99	1.08E+02	mg/kg		S	PRIMARY RESULT	TCD	Se	1.07E+05	
B110	Selenium	4/1/90	CORE 9 SEGMENT 1	1.23	8.61E+01	ug/g		I		B110 Core Data	Se	1.06E+05	
s104	Selenium	8/1/92	B08TL3	1.6	6.55E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.05E+05	
s104	Selenium	8/1/92	B08TL3		6.55E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.05E+05	
s104	Selenium	8/1/92	B08TL4	1.6	6.50E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.04E+05	
s104	Selenium	8/1/92	B08TL4		6.50E+01	mg/kg		S	DUPLICATE RESULT	TCD	Se	1.04E+05	
s104	Selenium	8/1/92	B08TL4	1.6	6.49E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.04E+05	
s104	Selenium	8/1/92	B08TL4		6.49E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.04E+05	
s104	Selenium	8/1/92	B08TL3	1.6	6.46E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.03E+05	
s104	Selenium	8/1/92	B08TL3		6.46E+01	mg/kg		S	PRIMARY RESULT	TCD	Se	1.03E+05	
B110	Selenium	4/1/90	CORE 9 SEGMENT 1	1.23	8.35E+01	ug/g		I		B110 Core Data	Se	1.03E+05	
B110	Selenium	4/1/90	Core Composite 4	1.36	7.46E+01	ug/g		I	PRIMARY	B110 Core Data	Se	1.01E+05	
t102	Selenium	3/1/93	B0B732	1.32	7.40E+01	ug/g		S	DUPLICATE RESULT	TCD	Se	9.77E+04	
t107	Selenium	3/1/93	B08VFO	1.38	7.01E+01	ug/g		S	PRIMARY RESULT	TCD	Se	9.67E+04	
t107	Selenium	3/1/93	B08VFO	1.38	6.99E+01	ug/g		S	PRIMARY RESULT	TCD	Se	9.65E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Selenium	3/1/93	B08VF0	1.38	6.95E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	9.59E+04	
t107	Selenium	3/1/93	B08VF0	1.38	6.94E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	9.58E+04	
c112	Selenium	3/1/92	B08DM7	1.6	5.91E+01	ug/g	S	PRIMARY RESULT	TCD	Se	9.46E+04	
s104	Selenium	8/1/92	B08S50	1.6	5.87E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	9.39E+04	
s104	Selenium	8/1/92	B08S50		5.87E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	9.39E+04	
s104	Selenium	8/1/92	B08TL4	1.6	5.83E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	9.33E+04	
s104	Selenium	8/1/92	B08TL4		5.83E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	9.33E+04	
t107	Selenium	3/1/93	B08VD9	1.305	7.02E+01	ug/g	S	PRIMARY RESULT	TCD	Se	9.16E+04	
t107	Selenium	3/1/93	B08TZ2	1.29	7.05E+01	ug/g	S	PRIMARY RESULT	TCD	Se	9.09E+04	
t107	Selenium	3/1/93	B08TZ2	1.29	7.01E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	9.04E+04	
t107	Selenium	3/1/93	B08TZ2	1.29	6.78E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	8.75E+04	
t105	Selenium	5/28/93	B08WT4	2.01	4.33E+01	ug/g	S	PRIMARY RESULT	TCD	Se	8.70E+04	
b202	Selenium	6/7/91	B08SM4	1.35	6.44E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	8.70E+04	
B110	Selenium	4/1/90	CORE 10 SEGMENT 5	1.36	6.37E+01	ug/g	I		B110 Core Data	Se	8.66E+04	
b202	Selenium	6/7/91	B0BC06	0.99	8.74E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	8.65E+04	
t105	Selenium	5/28/93	B08WT4	2.01	4.26E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	8.56E+04	
B110	Selenium	4/1/90	Core Composite 18	1.37	6.21E+01	ug/g	I	PRIMARY	B110 Core Data	Se	8.50E+04	
t107	Selenium	3/1/93	B08VB9	1.19	7.04E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	8.38E+04	
t107	Selenium	3/1/93	B08VB9	1.19	6.99E+01	ug/g	S	PRIMARY RESULT	TCD	Se	8.32E+04	
t102	Selenium	3/1/93	B0B732	1.32	6.30E+01	ug/g	S	PRIMARY RESULT	TCD	Se	8.32E+04	
c112	Selenium	3/1/92	B08DM7	1.6	5.19E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	8.30E+04	
c112	Selenium	3/1/92	B08DM7	1.6	5.07E+01	ug/g	S	PRIMARY RESULT	TCD	Se	8.11E+04	
t107	Selenium	3/1/93	B08V43	1.15	7.05E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	8.11E+04	
B110	Selenium	4/1/90	Core Composite 3	1.36	5.87E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	7.98E+04	
t107	Selenium	3/1/93	B08V43	1.15	6.87E+01	ug/g	S	PRIMARY RESULT	TCD	Se	7.90E+04	
c112	Selenium	3/1/92	B08DM7	1.6	4.88E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	7.81E+04	
s104	Selenium	8/1/92	B08TL3	1.6	4.83E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	7.73E+04	
s104	Selenium	8/1/92	B08TL3		4.83E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	7.73E+04	
b202	Selenium	6/7/91	B0BC06	0.99	7.75E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	7.67E+04	
t107	Selenium	3/1/93	B08V43	1.15	6.63E+01	ug/g	S	PRIMARY RESULT	TCD	Se	7.62E+04	
t107	Selenium	3/1/93	B08V44	1.1	6.86E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	7.55E+04	
B110	Selenium	4/1/90	Core Composite 10	1.34	5.62E+01	ug/g	I	PRIMARY	B110 Core Data	Se	7.54E+04	
t107	Selenium	3/1/93	B08V43	1.15	6.52E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	7.50E+04	
t107	Selenium	3/1/93	B08V44	1.1	6.81E+01	ug/g	S	PRIMARY RESULT	TCD	Se	7.49E+04	
t107	Selenium	3/1/93	B08V44	1.1	6.78E+01	ug/g	S	PRIMARY RESULT	TCD	Se	7.46E+04	
t107	Selenium	3/1/93	B08V44	1.1	6.77E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	7.45E+04	
B110	Selenium	4/1/90	CORE 10 SEGMENT 3	1.17	6.15E+01	ug/g	I		B110 Core Data	Se	7.19E+04	
B110	Selenium	4/1/90	CORE 10 SEGMENT 3	1.17	6.15E+01	ug/g	I		B110 Core Data	Se	7.19E+04	
b202	Selenium	6/7/91	B0BC06	0.99	7.25E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	7.18E+04	
B110	Selenium	4/1/90	Core Composite 1	1.36	5.11E+01	ug/g	I	PRIMARY	B110 Core Data	Se	6.95E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
c112	Selenium	3/1/92	B08DN8	1.6	4.28E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	6.85E+04			
s104	Selenium	8/1/92	B08TF6	1.6	4.15E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	6.64E+04			
s104	Selenium	8/1/92	B08TF6		4.15E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	6.64E+04			
s104	Selenium	8/1/92	B08TF6	1.6	4.15E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.64E+04			
s104	Selenium	8/1/92	B08TF6		4.15E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.64E+04			
BX107	Se	10/20/92	J926-AV		41.4586	ugm/gm	G	Sludge/Composite	Braun	Se	6.63E+04			
t107	Selenium	3/1/93	B08TZ3	0.95	6.98E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	6.63E+04			
t107	Selenium	3/1/93	B08TZ3	0.95	6.98E+01	ug/g	S	PRIMARY RESULT	TCD	Se	6.63E+04			
BX107	Se	10/20/92	J924-AV		41.4172	ugm/gm	G	Sludge/Composite	Braun	Se	6.63E+04			
BX107	Se	10/20/92	J925-AV		41.3347	ugm/gm	G	Sludge/Composite	Braun	Se	6.61E+04			
s104	Selenium	8/1/92	B08TF7	1.6	4.12E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	6.59E+04			
s104	Selenium	8/1/92	B08TF7		4.12E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	6.59E+04			
c112	Selenium	3/1/92	B08DN6	1.3	5.06E+01	ug/g	S	PRIMARY RESULT	TCD	Se	6.58E+04			
b202	Selenium	6/7/91	B08SP8	0.98	6.70E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.57E+04			
b202	Selenium	6/7/91	B08SP8	0.98	6.70E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.57E+04			
c112	Selenium	3/1/92	B08DN6	1.3	5.05E+01	ug/g	S	PRIMARY RESULT	TCD	Se	6.57E+04			
s104	Selenium	8/1/92	B08TF7	1.6	4.09E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.54E+04			
s104	Selenium	8/1/92	B08TF7		4.09E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	6.54E+04			
b202	Selenium	6/7/91	B0BC06	0.99	6.44E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	6.38E+04			
T111	Se	8/7/92	J-466		38	ugm/gm	G	Sludge/Composite	Braun	Se	6.08E+04			
T111	Se	8/7/92	J-470		38	ugm/gm	G	Sludge/Composite	Braun	Se	6.08E+04			
c112	Selenium	3/1/92	B08DN6	1.3	4.55E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	5.92E+04			
B110	Selenium	4/1/90	Core Composite 10	1.34	4.40E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	5.90E+04			
B110	Selenium	4/1/90	Core Composite 18	1.37	3.96E+01	ug/g	I	PRIMARY	B110 Core Data	Se	5.42E+04			
b202	Selenium	6/7/91	B08SK0	0.93	5.54E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	5.15E+04			
b202	Selenium	6/7/91	B08SK0	0.93	5.54E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	5.15E+04			
s104	Selenium	8/1/92	B08TL4	1.6	3.22E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	5.15E+04			
s104	Selenium	8/1/92	B08TL4		3.22E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	5.15E+04			
s104	Selenium	8/1/92	B08S50	1.6	3.18E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	5.09E+04			
s104	Selenium	8/1/92	B08S50		3.18E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	5.09E+04			
c112	Selenium	3/1/92	B08DN6	1.3	3.90E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	5.07E+04			
B110	Selenium	4/1/90	Core Composite 3	1.36	3.42E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	4.65E+04			
b202	Selenium	6/7/91	B08SK0	0.93	4.67E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.34E+04			
bx107	Selenium	6/1/92	B08SF0	1.326	3.26E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	4.32E+04			
s104	Selenium	8/1/92	B08TL3	1.6	2.66E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.26E+04			
s104	Selenium	8/1/92	B08TL3		2.66E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.26E+04			
s104	Selenium	8/1/92	B08S50	1.6	2.58E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.13E+04			
s104	Selenium	8/1/92	B08S50		2.58E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.13E+04			
b202	Selenium	6/7/91	B08SP8	0.98	4.10E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	4.02E+04			
b202	Selenium	6/7/91	B08SP8	0.98	4.09E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	4.01E+04			

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Selenium	4/1/90	Core Composite 3	1.36	2.93E+01	ug/g	I	PRIMARY	B110 Core Data	Se	3.99E+04	
t104	Selenium	8/26/92	B08S09	1.13	3.45E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	3.90E+04	
t105	Selenium	5/28/93	B08WT2	0.89	4.30E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	3.83E+04	
t105	Selenium	5/28/93	B08WT2	0.89	4.28E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	3.81E+04	
b202	Selenium	6/7/91	B08SK0	0.93	3.98E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	3.70E+04	
B110	Selenium	4/1/90	Core Composite 9	1.32	2.74E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	3.61E+04	
bx107	Selenium	6/1/92	B08SFO	1.326	2.61E+01	ug/g	S	PRIMARY RESULT	TCD	Se	3.46E+04	
t104	Selenium	8/26/92	B08S09	1.13	3.04E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	3.44E+04	
B110	Selenium	4/1/90	Core Composite 2	1.33	2.58E+01	ug/g	I	PRIMARY	B110 Core Data	Se	3.43E+04	
b202	Selenium	6/7/91	B08SK0	0.93	3.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	3.37E+04	
B110	Selenium	4/1/90	Core Composite 9	1.32	2.49E+01	ug/g	I	PRIMARY	B110 Core Data	Se	3.28E+04	
B110	Selenium	4/1/90	Core Composite 4	1.36	2.41E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	3.28E+04	
B110	Selenium	4/1/90	Core Composite 4	1.36	2.41E+01	ug/g	I	PRIMARY	B110 Core Data	Se	3.28E+04	
b202	Selenium	6/7/91	B08SP8	0.98	3.33E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	3.26E+04	
s104	Selenium	8/1/92	B08TL4	1.6	1.98E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	3.17E+04	
s104	Selenium	8/1/92	B08TL4		1.98E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	3.17E+04	
B110	Selenium	4/1/90	Core Composite 10	1.34	2.20E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	2.95E+04	
bx107	Selenium	6/1/92	B08SFO	1.326	2.19E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	2.90E+04	
t104	Selenium	8/26/92	B08S09	1.13	2.55E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.88E+04	
B110	Selenium	4/1/90	Core Composite 2	1.33	2.11E+01	ug/g	I	DUPLICATE	B110 Core Data	Se	2.81E+04	
s104	Selenium	8/1/92	B08TL3	1.6	1.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.59E+04	
s104	Selenium	8/1/92	B08TL3		1.62E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.59E+04	
b202	Selenium	6/7/91	B08SK0	0.93	2.74E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.55E+04	
B110	Selenium	4/1/90	Core Composite 2	1.33	1.88E+01	ug/g	I	PRIMARY	B110 Core Data	Se	2.50E+04	
s104	Selenium	8/1/92	B08S46	1.6	1.37E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.19E+04	
s104	Selenium	8/1/92	B08S46		1.37E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.19E+04	
s104	Selenium	8/1/92	B08S46	1.6	1.35E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.16E+04	
s104	Selenium	8/1/92	B08S46		1.35E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.16E+04	
s104	Selenium	8/1/92	B08S46	1.6	1.35E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.16E+04	
s104	Selenium	8/1/92	B08S46		1.35E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.16E+04	
s104	Selenium	8/1/92	B08S46	1.6	1.34E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.14E+04	
s104	Selenium	8/1/92	B08S46		1.34E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.14E+04	
s104	Selenium	8/1/92	B08TJ5	1.6	1.33E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.13E+04	
s104	Selenium	8/1/92	B08TJ5		1.33E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.13E+04	
BX107	Se	10/20/92	J925-AV		13.3	ugm/gm	G	Sludge/Composite	Braun	Se	2.13E+04	
t104	Selenium	8/26/92	B08S09	1.13	1.87E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.11E+04	
s104	Selenium	8/1/92	B08TJ5	1.6	1.32E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.11E+04	
s104	Selenium	8/1/92	B08TJ5		1.32E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.11E+04	
s104	Selenium	8/1/92	B08S48	1.6	1.31E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.10E+04	
s104	Selenium	8/1/92	B08TJ4	1.6	1.31E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.10E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Selenium	8/1/92	B08S48		1.31E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.10E+04	
s104	Selenium	8/1/92	B08TJ4		1.31E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.10E+04	
s104	Selenium	8/1/92	B08TJ4	1.6	1.31E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.10E+04	
s104	Selenium	8/1/92	B08TJ4		1.31E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.10E+04	
s104	Selenium	8/1/92	B08TJ5	1.6	1.29E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.06E+04	
s104	Selenium	8/1/92	B08TJ5		1.29E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.06E+04	
s104	Selenium	8/1/92	B08S48	1.6	1.29E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.06E+04	
s104	Selenium	8/1/92	B08S48		1.29E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.06E+04	
s104	Selenium	8/1/92	B08TJ5	1.6	1.28E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.05E+04	
s104	Selenium	8/1/92	B08TJ5		1.28E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.03E+04	
s104	Selenium	8/1/92	B08S48	1.6	1.27E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.02E+04	
s104	Selenium	8/1/92	B08TL3	1.6	1.26E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.02E+04	
s104	Selenium	8/1/92	B08TL3		1.26E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.02E+04	
s104	Selenium	8/1/92	B08TJ4	1.6	1.26E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	2.01E+04	
s104	Selenium	8/1/92	B08SP8	0.98	2.05E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.00E+04	
s104	Selenium	8/1/92	B08TJ4	1.6	1.25E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	2.00E+04	
B110	Selenium	4/1/90	Core Composite 10	1.34	1.47E+01	ug/g	I	PRIMARY	B110 Core Data	Se	1.97E+04	
s104	Selenium	8/1/92	B08S48	1.6	1.20E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.92E+04	
s104	Selenium	8/1/92	B08S48		1.20E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.92E+04	
bx107	Selenium	6/1/92	B08SF0	1.326	1.43E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.90E+04	
t107	Selenium	3/1/93	B08T22	1.29	1.41E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.82E+04	
t107	Selenium	3/1/93	B08T22	1.29	1.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.81E+04	
t107	Selenium	3/1/93	B08VB9	1.19	1.41E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.68E+04	
t107	Selenium	3/1/93	B08VB9	1.19	1.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.67E+04	
t107	Selenium	3/1/93	B08V43	1.15	1.41E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.62E+04	
t107	Selenium	3/1/93	B08V43	1.15	1.41E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.62E+04	
t107	Selenium	3/1/93	B08V43	1.15	1.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.61E+04	
C102	Se	2/1/91	1		1.00E+01	mg/kg	S	water leach	RAW	Se	1.60E+04	
t107	Selenium	3/1/93	B08V43	1.15	1.39E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.60E+04	
s104	Selenium	8/1/92	B08TF7	1.6	8.47E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.36E+04	
s104	Selenium	8/1/92	B08TF7		8.47E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.36E+04	
BX107	Se	10/20/92	J924-AV		8.45755	ugm/gm	G	Sludge/Composite	Braun	Se	1.35E+04	
BX107	Se	10/20/92	J926-AV		8.45755	ugm/gm	G	Sludge/Composite	Braun	Se	1.35E+04	
t111	Selenium	11/1/91	B08SV7	1.09	1.24E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.35E+04	
s104	Selenium	8/1/92	B08TF6	1.6	8.43E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.35E+04	
s104	Selenium	8/1/92	B08TF7	1.6	8.43E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.35E+04	
s104	Selenium	8/1/92	B08TF6		8.43E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.35E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
s104	Selenium	8/1/92	B08TF7		8.43E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.35E+04	
s104	Selenium	8/1/92	B08TF6	1.6	8.38E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.34E+04	
s104	Selenium	8/1/92	B08TF6		8.38E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.34E+04	
s104	Selenium	8/1/92	B08TF7	1.6	8.22E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.32E+04	
s104	Selenium	8/1/92	B08TF7		8.22E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.32E+04	
t111	Selenium	11/1/91	B08SV7	1.09	1.19E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.30E+04	
s104	Selenium	8/1/92	B08TF6	1.6	8.03E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.28E+04	
s104	Selenium	8/1/92	B08TF6		8.03E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.28E+04	
s104	Selenium	8/1/92	B08TF6	1.6	7.95E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.27E+04	
s104	Selenium	8/1/92	B08TF6		7.95E+00	mg/kg	S	PRIMARY RESULT	TCD	Se	1.27E+04	
s104	Selenium	8/1/92	B08TF7	1.6	7.94E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.27E+04	
s104	Selenium	8/1/92	B08TF7		7.94E+00	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.27E+04	
T111	Se	8/7/92	J-408	1.09	11.5	ugm/gm	G	Sludge	Braun	Se	1.25E+04	
t111	Selenium	11/1/91	B08SV7	1.09	1.15E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.25E+04	
b202	Selenium	6/7/91	B08SP5	0.87	1.43E+01	mg/kg	S	DUPLICATE RESULT	TCD	Se	1.24E+04	
B110	Selenium	4/1/90	Core Composite 18	1.37	9.08E+00	ug/g	I	DUPLICATE	B110 Core Data	Se	1.24E+04	
t111	Selenium	11/1/91	B08ST9	1.11	1.12E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.24E+04	
BX107	Se	10/20/92	J927-AV		7.66	ugm/gm	G	Sludge/Composite	Braun	Se	1.23E+04	
t107	Selenium	3/1/93	B08VF0	1.38	8.63E+00	ug/g	S	PRIMARY RESULT	TCD	Se	1.19E+04	
t107	Selenium	3/1/93	B08VF0	1.38	8.60E+00	ug/g	S	PRIMARY RESULT	TCD	Se	1.19E+04	
b202	Selenium	6/7/91	B08SP5	0.87	1.36E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.18E+04	
b202	Selenium	6/7/91	B08SP5	0.87	1.36E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.18E+04	
b202	Selenium	6/7/91	B08SP5	0.87	1.36E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.18E+04	
T111	Se	8/7/92	J-404	1.11	10.2	ugm/gm	G	Sludge	Braun	Se	1.13E+04	
t111	Selenium	11/1/91	B08ST9	1.11	1.02E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.13E+04	
t111	Selenium	11/1/91	B08ST9	1.11	1.01E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.12E+04	
t111	Selenium	11/1/91	B08ST5	0.88	1.23E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.08E+04	
T111	Se	8/7/92	J-398	0.88	12.3	ugm/gm	G	Sludge	Braun	Se	1.08E+04	
t111	Selenium	11/1/91	B08SX5	1.06	1.00E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.06E+04	
T111	Se	8/7/92	J-410	1.06	9.9	ugm/gm	G	Sludge	Braun	Se	1.05E+04	
t111	Selenium	11/1/91	B08ST5	0.88	1.19E+01	ug/g	S	DUPLICATE RESULT	TCD	Se	1.05E+04	
t111	Selenium	11/1/91	B08SX5	1.06	9.87E+00	ug/g	S	PRIMARY RESULT	TCD	Se	1.05E+04	
b202	Selenium	6/7/91	B08SP5	0.87	1.19E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	1.04E+04	
t111	Selenium	11/1/91	B08ST9	1.11	9.18E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	1.02E+04	
t111	Selenium	11/1/91	B08ST7	0.93	1.08E+01	ug/g	S	PRIMARY RESULT	TCD	Se	1.00E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
t111	Selenium	11/1/91	B08SV7	1.09	9.16E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	9.98E+03	
t111	Selenium	11/1/91	B08SX5	1.06	9.16E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	9.71E+03	
t111	Selenium	11/1/91	B08ST7	0.93	9.95E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	9.25E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t111	Selenium	11/1/91	B08SX5	1.06	8.64E+00	ug/g	S	PRIMARY RESULT	TCD	Se	9.16E+03	
b202	Selenium	6/7/91	B08SP5	0.87	1.01E+01	mg/kg	S	PRIMARY RESULT	TCD	Se	8.79E+03	
U110	Selenium	12/1/89	Core Composite 7	1.675	5.20E+00	ug/g	I	DUPLICATE	U110 Core Data	Se	8.71E+03	
C102	Se	2/1/91	2		8.60E+00	ug/mL	S	water leach	RAW	Se	8.60E+03	
C102	Se	2/1/91	2		8.60E+00	ug/mL	S	water leach	RAW	Se	8.60E+03	
U110	Selenium	12/1/89	Core Composite 6	1.54	5.25E+00	ug/g	I	PRIMARY	U110 Core Data	Se	8.09E+03	
t105	Selenium	5/28/93	B08WT2	0.89	8.94E+00	ug/g	S	PRIMARY RESULT	TCD	Se	7.96E+03	
t105	Selenium	5/28/93	B08WT2	0.89	8.92E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	7.94E+03	
t111	Selenium	11/1/91	B08ST5	0.88	8.76E+00	ug/g	S	DUPLICATE RESULT	TCD	Se	7.71E+03	
t111	Selenium	11/1/91	B08ST5	0.88	8.44E+00	ug/g	S	PRIMARY RESULT	TCD	Se	7.43E+03	
U110	Selenium	12/1/89	Core Composite 14	1.48	4.76E+00	ug/g	I	DUPLICATE	U110 Core Data	Se	7.04E+03	
T111	Se	8/7/92	J-402	0.93	7.3	ugm/gm	G	Sludge	Braun	Se	6.79E+03	
U110	Selenium	12/1/89	Core Composite 6	1.54	4.16E+00	ug/g	I	DUPLICATE	U110 Core Data	Se	6.41E+03	
U110	Selenium	12/1/89	Core Composite 7	1.675	3.70E+00	ug/g	I	PRIMARY	U110 Core Data	Se	6.20E+03	
U110	Selenium	12/1/89	Core Composite 14	1.48	4.09E+00	ug/g	I	PRIMARY	U110 Core Data	Se	6.05E+03	
B110	Selenium	4/1/90	Core Composite 2	1.33	2.35E+00	ug/g	I	DUPLICATE	B110 Core Data	Se	3.12E+03	
U110	Selenium	12/1/89	Core Composite 12	1.42	1.87E+00	ug/g	I	DUPLICATE	U110 Core Data	Se	2.66E+03	
U110	Selenium	12/1/89	Core Composite 12	1.42	1.83E+00	ug/g	I	PRIMARY	U110 Core Data	Se	2.60E+03	
B110	Se	6/21/90	90-0636		1.70E+00	ug/ml	G	Acid Results	RAW	Se	1.70E+03	
U110	Selenium	12/1/89	Core Composite 8		9.76E-01	ug/g	I	PRIMARY	U110 Core Data	Se	1.56E+03	
B202	Se	12/31/91			1.41E-03	g/L	G	Sludge	Wastren	Se	1.41E+03	
s104	Selenium	8/1/92	B08TL3	1.6	1.34E+00	ug/mL	S	PRIMARY RESULT	TCD	Se	1.34E+03	
s104	Selenium	8/1/92	B08TL3		1.34E+00	ug/mL	S	PRIMARY RESULT	TCD	Se	1.34E+03	
U110	Selenium	12/1/89	Core Composite 8		8.37E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	1.34E+03	
U110	Selenium	12/1/89	Core Composite 15	1.29	1.02E+00	ug/g	I	DUPLICATE	U110 Core Data	Se	1.32E+03	
U110	Selenium	12/1/89	Core Composite 5	1.04	1.08E+00	ug/g	I	PRIMARY	U110 Core Data	Se	1.12E+03	
U110	Selenium	12/1/89	Core Composite 5	1.04	1.03E+00	ug/g	I	PRIMARY	U110 Core Data	Se	1.07E+03	
U110	Selenium	12/1/89	Core Composite 5	1.04	9.20E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	9.57E+02	
U110	Selenium	12/1/89	Core Composite 7	1.675	5.06E-01	ug/g	I	PRIMARY	U110 Core Data	Se	8.48E+02	
U110	Selenium	12/1/89	Core Composite 7	1.675	4.98E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	8.34E+02	
U110	Selenium	12/1/89	Core Composite 8		5.02E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	8.03E+02	
U110	Selenium	12/1/89	Core Composite 8		4.99E-01	ug/g	I	PRIMARY	U110 Core Data	Se	7.98E+02	
U110	Selenium	12/1/89	Core Composite 5	1.04	7.60E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	7.90E+02	
U110	Selenium	12/1/89	Core Composite 14	1.48	4.95E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	7.33E+02	
U110	Selenium	12/1/89	Core Composite 14	1.48	4.85E-01	ug/g	I	PRIMARY	U110 Core Data	Se	7.18E+02	
U110	Selenium	12/1/89	Core Composite 13	1.3	4.98E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	6.47E+02	
U110	Selenium	12/1/89	Core Composite 13	1.3	4.91E-01	ug/g	I	PRIMARY	U110 Core Data	Se	6.38E+02	
U110	Selenium	12/1/89	Core Composite 15	1.29	4.73E-01	ug/g	I	PRIMARY	U110 Core Data	Se	6.10E+02	
U110	Selenium	12/1/89	Core Composite 15	1.29	4.68E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	6.04E+02	
C102	Se	2/1/91	1		5.00E-01	ug/mL	S	water leach	RAW	Se	5.00E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Single-Shell Tank Solids [Sketch ES-VAL-CC38]
 ASA Value: 3.50E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C102	Se	2/1/91	1		5.00E-01	ug/mL	S	water leach	RAW	Se	5.00E+02	
s104	Selenium	8/1/92	B08TL4	1.6	2.96E-01	ug/g	S	PRIMARY RESULT	TCD	Se	4.74E+02	
s104	Selenium	8/1/92	B08TL4		2.96E-01	ug/g	S	PRIMARY RESULT	TCD	Se	4.74E+02	
U110	Selenium	12/1/89	Core Composite 15	1.29	3.15E-01	ug/g	I	PRIMARY	U110 Core Data	Se	4.06E+02	
U110	Selenium	12/1/89	Core Composite 13	1.3	2.90E-01	ug/g	I	PRIMARY	U110 Core Data	Se	3.77E+02	
U110	Selenium	12/1/89	Core Composite 13	1.3	2.76E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	3.59E+02	
U110	Selenium	12/1/89	Core Composite 6	1.54	2.11E-01	ug/g	I	PRIMARY	U110 Core Data	Se	3.25E+02	
U110	Selenium	12/1/89	Core Composite 6	1.54	2.02E-01	ug/g	I	DUPLICATE	U110 Core Data	Se	3.11E+02	
U110	Selenium	12/1/89	Core Composite 12	1.42	7.78E-02	ug/g	I	DUPLICATE	U110 Core Data	Se	1.10E+02	
U110	Selenium	12/1/89	Core Composite 12	1.42	7.70E-02	ug/g	I	PRIMARY	U110 Core Data	Se	1.09E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Liquids [Sketch ES-VAL-CC39]

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ASA Value: N/A

Sr was not used in the evaluation

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
C105	Sr	4/1/90	RAT-C105-4A		160	ugm/gm	U	Unknown	Braun	Sr	1.76E+05	
C106	Sr	4/1/90	RAT-C106-4A		110	ugm/gm	U	Unknown	Braun	Sr	1.21E+05	
C102	Sr	4/1/90	RAT-C102-1		80	ugm/gm	U	Unknown	Braun	Sr	8.80E+04	
TX118	Sr	10/16/81			5.17E-02	g/L	P	Supernate	Wastren	Sr	5.17E+04	
TX118	Sr	10/16/81			5.90E-04	M	L		RAW	Sr	5.17E+04	
TX118	Sr	10/16/81	RAT-TX118-4		0.00059	moles/l	P	Supernate	Braun	Sr	5.17E+04	
B108	Sr				5.51E+00	g-moles	L		TRAC	Sr	3.85E+04	
AX102	Sr	11/14/88			2.63E-02	g/L	P	Supernate	Wastren	Sr	2.63E+04	
AX102	Sr	11/14/88	RAT-AX102-3		0.0003	moles/l	P	Supernate	Braun	Sr	2.63E+04	
BY106	Sr	6/3/91	R-8083	1.46	1.50E+01	ppm	P	Supernatant	RAW	Sr	2.19E+04	
BY106	Sr	6/3/91	R-8083	1.46	15	ppm	P	Supernate	Braun	Sr	2.19E+04	
BY102	Sr	6/3/91	R-8081	1.42	1.50E+01	ppm	P	Supernatant	RAW	Sr	2.13E+04	
BY102	Sr	6/3/91	R-8081	1.42	15	ppm	P	Supernate	Braun	Sr	2.13E+04	
BY105	Sr	6/3/91	R-8082	1.38	1.50E+01	ppm	P	Supernatant	RAW	Sr	2.07E+04	
BY105	Sr	6/3/91	R-8082	1.38	15	ppm	P	Supernate	Braun	Sr	2.07E+04	
BY109	Sr	6/3/91	R-8084	1.3	1.50E+01	ppm	P	Supernatant	RAW	Sr	1.95E+04	
BY109	Sr	6/3/91	R-8084	1.3	15	ppm	P	Supernate	Braun	Sr	1.95E+04	
BY109	Sr	11/20/90	R8084	1.37	1.40E+01	ppm	P	Supernatant	RAW	Sr	1.92E+04	
BY105	Sr	6/3/91	R-8092	1.4	1.30E+01	ppm	P	Supernatant	RAW	Sr	1.82E+04	
BY109	Sr	6/3/91	R-8094	1.4	1.30E+01	ppm	P	Supernatant	RAW	Sr	1.82E+04	
BY105	Sr	6/3/91	R-8092	1.4	13	ppm	P	Supernate	Braun	Sr	1.82E+04	
BY109	Sr	6/3/91	R-8094	1.4	13	ppm	P	Supernate	Braun	Sr	1.82E+04	
BY106	Sr	6/3/91	R-8093	1.47	1.20E+01	ppm	P	Supernatant	RAW	Sr	1.76E+04	
BY106	Sr	6/3/91	R-8093	1.47	12	ppm	P	Supernate	Braun	Sr	1.76E+04	
BY102	Sr	6/3/91	R-8091	1.41	1.20E+01	ppm	P	Supernatant	RAW	Sr	1.69E+04	
BY102	Sr	6/3/91	R-8091	1.41	12	ppm	P	Supernate	Braun	Sr	1.69E+04	
BY102	Sr	11/20/90	R-8081		1.50E+01	PPM	P	Supernatant	RAW	Sr	1.65E+04	
BY105	Sr	11/20/90	R-8082		1.40E+01	PPM	P	Supernatant	RAW	Sr	1.54E+04	
BY106	Sr	11/20/90	R8083		1.40E+01	ppm	P	Supernatant	RAW	Sr	1.54E+04	
t104	Strontium	8/26/92	B08TQ7	1.1	1.38E+01	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.38E+04	
BX110	Sr				6.56E+01	g-moles	L		TRAC	Sr	1.06E+04	
BY102	Sr	6/3/91			1.06E-02	g/L	P	Supernate	Wastren	Sr	1.06E+04	
BY105	Sr	6/3/91			9.29E-03	g/L	L	Drainable Liquid	Wastren	Sr	9.29E+03	
BY109	Sr	6/3/91			9.29E-03	g/L	P	Supernate	Wastren	Sr	9.29E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Liquids [Sketch ES-VAL-CC39]

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ASA Value: N/A

Sr was not used in the evaluation

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX111	Sr				6.75E+01	g-moles	L		TRAC	Sr	8.43E+03	
BY109	Sr				2.80E+01	g-moles	L		TRAC	Sr	7.99E+03	
BY101	Sr				8.64E+01	g-moles	L		TRAC	Sr	5.89E+03	
BX112	Sr	3/16/90			5.13E-03	g/L	P	Supernate	Wastren	Sr	5.13E+03	
BX112	Sr	3/16/90	R6042	1.2	5.85E-05	M	P	Supernatant	RAW	Sr	5.13E+03	
BX112	Sr	3/16/90	R-6042	1.2	0.0000585	moles/l	P	Supernate	Braun	Sr	5.13E+03	
C109	Sr				1.06E+01	g-moles	L		TRAC	Sr	4.20E+03	
BY108	Sr				5.40E+01	g-moles	L		TRAC	Sr	3.61E+03	
BY110	Sr				7.83E+01	g-moles	L		TRAC	Sr	3.60E+03	
BY104	Sr				8.82E+01	g-moles	L		TRAC	Sr	3.55E+03	
BY106	Sr				8.76E+01	g-moles	L		TRAC	Sr	3.39E+03	
BY111	Sr				8.85E+01	g-moles	L		TRAC	Sr	3.33E+03	
BY112	Sr				1.62E+01	g-moles	L		TRAC	Sr	2.88E+03	
BY105	Sr				6.84E+01	g-moles	L		TRAC	Sr	2.76E+03	
BY107	Sr				3.20E+01	g-moles	L		TRAC	Sr	2.39E+03	
c112	Strontium	3/1/92	B08DZ5	1.4	1.50E+00	ug/g	L	DUPLICATE RESULT	TCD	Sr	2.10E+03	
c112	Strontium	3/1/92	B08DZ5	1.4	1.40E+00	ug/g	L	PRIMARY RESULT	TCD	Sr	1.96E+03	
BX105	Strontium	5/19/87	B1XDXXXX		1.96E+00	mg/L	L	Drainable Liquor	RAW	Sr	1.96E+03	
BX105	Strontium	5/19/87	B1XDXXXX		1.96E+00	mg/L	L	Drainable Liquor	RAW	Sr	1.96E+03	
BX105	Sr	3/3/86	81XD00XX	1.29	1.96	mg/l	L	Liquor	Braun	Sr	1.96E+03	
c110	Strontium	4/23/92	B08VM5	1	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VM5	1	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VH6	1.18	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
c110	Strontium	4/23/92	B08VH6	1.18	1.83E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.83E+03	
BX105	Sr	3/4/86			1.63E-03	g/L	P	Supernate	Wastren	Sr	1.63E+03	
BX105	Strontium	5/19/87	B2XDXXXX		1.63E+00	mg/L	L	Drainable Liquor	RAW	Sr	1.63E+03	
BX105	Strontium	5/19/87	B2XDXXXX		1.63E+00	mg/L	L	Drainable Liquor	RAW	Sr	1.63E+03	
BX105	Sr	3/4/86	82XD00XX	1.29	1.63	mg/l	L	Liquor	Braun	Sr	1.63E+03	
SX104	Sr				2.42E+01	g-moles	L		TRAC	Sr	1.63E+03	
S101	Sr				1.45E+01	g-moles	L		TRAC	Sr	1.46E+03	
BY103	Sr	6/3/91	R-8088	1.45	1.00E+00	ppm	P	Supernatant	RAW	Sr	1.45E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Liquids [Sketch ES-VAL-CC39]

ASA Value: N/A

Sr was not used in the evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY103	Sr	6/3/91	R-8088	1.45	1	ppm	P	Supernate	Braun	Sr	1.45E+03	
c110	Strontium	4/23/92	B08VM5	1	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VM5	1	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VH6	1.18	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
c110	Strontium	4/23/92	B08VH6	1.18	1.34E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.34E+03	
C110	Sr	6/3/91	R-8087	1.2	1	ppm	P	Supernate	Braun	Sr	1.20E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.17E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.17E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.17E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.17E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.17E+00	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.17E+03	
C110	Sr	11/1/91	2	1.1	1.17E+00	ug/ml	L	core 38 seg. 4	RAW	Sr	1.17E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.11E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.11E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.11E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.11E+03	
c110	Strontium	4/23/92	B08VP9	1.1	1.11E+00	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.11E+03	
C110	Sr	11/1/91	1	1.1	1.11E+00	ug/ml	L	core 38 seg. 4	RAW	Sr	1.11E+03	
BY103	Sr	11/14/90			1.00E+00	ppm	P	Supernatant	RAW	Sr	1.10E+03	
SX105	Sr				2.64E+01	g-moles	L		TRAC	Sr	1.02E+03	
BY106	Sr	6/3/91			9.59E-04	g/L	L	Drainable Liquid	Wastren	Sr	9.59E+02	
C110	Sr	11/20/90	8087	1.2	7.00E-01	ppm	p	supernate	RAW	Sr	8.40E+02	
C110	Sr	6/3/91			8.33E-04	g/L	P	Supernate	Wastren	Sr	8.33E+02	
TX118	Sr	10/16/81	RAT-TX118-5		7.99E-06	moles/l	P	Supernate	Braun	Sr	7.00E+02	
BY103	Sr	6/3/91			6.90E-04	g/L	L	Drainable Liquid	Wastren	Sr	6.90E+02	
B109	Sr				1.67E+00	g-moles	L		TRAC	Sr	5.88E+02	
C103	Strontium	5/19/87	F1XDXXXX		4.77E-01	mg/L	L	Drainable Liquor	RAW	Sr	4.77E+02	
C103	Sr	5/7/86	F1XDOOXX	1.11	0.477	mg/l	L	Liquor	Braun	Sr	4.77E+02	
c112	Strontium	3/1/92	B08DZ5	1.4	3.00E-01	ug/g	L	DUPLICATE RESULT	TCD	Sr	4.20E+02	
c112	Strontium	3/1/92	B08DZ5	1.4	3.00E-01	ug/g	L	PRIMARY RESULT	TCD	Sr	4.20E+02	
S110	Sr				1.01E+01	g-moles	L		TRAC	Sr	3.75E+02	
S111	Sr				9.17E+00	g-moles	L		TRAC	Sr	3.64E+02	
c110	Strontium	4/23/92	B08VH6	1.18	3.14E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	3.14E+02	
c110	Strontium	4/23/92	B08VH6	1.18	3.14E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	3.14E+02	
C110	Sr	11/1/91	2	1.18	3.14E-01	ug/ml	L	core 39 seg. 3	RAW	Sr	3.14E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Liquids [Sketch ES-VAL-CC39]

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ASA Value: N/A

Sr was not used in the evaluation

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SX106	Sr				6.29E+00	g-moles	L		TRAC	Sr	3.05E+02	
c110	Strontium	4/23/92	B08VH6	1.18	2.81E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	2.81E+02	
c110	Strontium	4/23/92	B08VH6	1.18	2.81E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	2.81E+02	
C110	Sr	11/1/91	1	1.18	2.81E-01	ug/ml	L	core 39 seg. 3	RAW	Sr	2.81E+02	
B202	Sr				2.58E-01	g-moles	L		TRAC	Sr	2.26E+02	
BX104	Sr	2/14/86	71XD00XX	1.31	0.2096	mg/l	L	Liquor	Braun	Sr	2.10E+02	
c110	Strontium	4/23/92	B08VM5	1	2.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	2.00E+02	
c110	Strontium	4/23/92	B08VM5	1	2.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	2.00E+02	
c110	Strontium	4/23/92	B08VM5	1	2.00E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	2.00E+02	
c110	Strontium	4/23/92	B08VM5	1	2.00E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	2.00E+02	
C110	Sr	11/1/91	1	1	2.00E-01	ug/ml	L	core 37 seg. 3	RAW	Sr	2.00E+02	
C110	Sr	11/1/91	2	1	2.00E-01	ug/ml	L	core 37 seg. 3	RAW	Sr	2.00E+02	
AX103	Sr				9.42E-01	g-moles	L		TRAC	Sr	1.80E+02	
t107	Strontium	3/1/93	B08V58	1.2	1.75E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.75E+02	
t107	Strontium	3/1/93	B08V58	1.2	1.69E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.69E+02	
B103	Sr				6.17E-01	g-moles	L		TRAC	Sr	1.59E+02	
t107	Strontium	3/1/93	B08V16	1.02	1.40E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.40E+02	
t107	Strontium	3/1/93	B08V16	1.02	1.40E-01	ug/mL	L	PRIMARY RESULT	TCD	Sr	1.40E+02	
t107	Strontium	3/1/93	B08V16	1.02	1.39E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.39E+02	
t107	Strontium	3/1/93	B08V16	1.02	1.39E-01	ug/mL	L	DUPLICATE RESULT	TCD	Sr	1.39E+02	
U107	Sr				2.27E+00	g-moles	L		TRAC	Sr	1.35E+02	
BX104	Sr	2/26/86			1.26E-04	g/L	L	Drainable Liquid	Wastren	Sr	1.26E+02	
BX104	Sr	2/26/86	72XD00XX	1.21	0.1258	mg/l	L	Liquor	Braun	Sr	1.26E+02	
S108	Sr				3.27E+00	g-moles	L		TRAC	Sr	1.26E+02	
A102	Sr	3/6/86	91XD00XX	1.52	0.11	mg/l	L	Liquor	Braun	Sr	1.10E+02	
U111	Sr				5.84E-01	g-moles	L		TRAC	Sr	1.02E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
TX109	Sr				7.60E-01	g-moles	L		TRAC	Sr	4.38E+01	
A103	Sr				4.39E-01	g-moles	L		TRAC	Sr	2.00E+01	
TX110	Sr				3.07E-01	g-moles	L		TRAC	Sr	1.38E+01	
U102	Sr				5.12E-02	g-moles	L		TRAC	Sr	3.13E+00	
T101	Sr				1.48E-02	g-moles	L		TRAC	Sr	2.63E+00	
TX111	Sr				3.14E-02	g-moles	L		TRAC	Sr	1.85E+00	
t107	Strontium	3/1/93	B08VB5	1.1	1.82E+00	UG/L	L	DUPLICATE RESULT	TCD	Sr	1.82E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Liquids [Sketch ES-VAL-CC39]
 ASA Value: N/A
 Sr was not used in the evaluation

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Strontium	3/1/93	B08VB5	1.1	1.80E+00	UG/L	L	PRIMARY RESULT	TCD	Sr	1.80E+00	
C112	Sr				6.64E-03	g-moles	L		TRAC	Sr	1.56E+00	
T103	Sr				1.41E-03	g-moles	L		TRAC	Sr	1.40E+00	
T102	Sr				2.51E-04	g-moles	L		TRAC	Sr	3.87E-01	
B102	Sr				5.15E-04	g-moles	L		TRAC	Sr	2.49E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY110	Sr				2.74E+04	g-moles	S		TRAC	Sr	1.27E+08	
A104	Sr	9/4/74			4.82E+01	g/L	G	Sludge	Wastren	Sr	4.82E+07	
BY107	Sr				1.94E+04	g-moles	S		TRAC	Sr	2.80E+07	
BY106	Sr				2.67E+04	g-moles	S		TRAC	Sr	2.21E+07	
B110	Strontium	4/1/90	CORE 2 SEGMENT 5	1.28	5.19E+03	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.65E+06	
BY111	Sr				2.23E+03	g-moles	S		TRAC	Sr	6.45E+06	
AX102	Sr	9/25/74	RAT-AX102-2	1.57	0.057	moles/l	G	Sludge	Braun	Sr	4.99E+06	
A104	Sr	9/4/74	RAT-A104-1	1.64	0.055	moles/l	G	Sludge	Braun	Sr	4.82E+06	
BY104	Sr	11/12/92			2.98E+00	g/L	K	Saltcake	Wastren	Sr	2.98E+06	
AX103	Sr	9/19/74			3.40E-02	M/L	G	Sludge	RAW	Sr	2.98E+06	
AX103	Sr	9/19/74	RAT-AX103-1		0.034	moles/l	G	Sludge	Braun	Sr	2.98E+06	
BY104	Sr	10/26/92	riser 5		1.70E+03	ug/g	S	fusion digestion	RAW	Sr	2.72E+06	
BY104	Sr	11/12/92	R-1773		1700	ugm/gm	T	Crust	Braun	Sr	2.72E+06	
t107	Strontium	3/1/93	B08V43	1.15	2.03E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	2.33E+06	
U110	Strontium	12/1/89	Core 12 Segment 2	1.77	1.26E+03	ug/g	I	PRIMARY	U110 Core Data	Sr	2.22E+06	
BY108	Sr				1.23E+03	g-moles	S		TRAC	Sr	2.18E+06	
U110	Strontium	12/1/89	Core 12 Segment 2	1.77	1.22E+03	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.16E+06	
U110	Sr	11/29/89	89-070		1257	ugm/gm	G	Sludge	Braun	Sr	2.01E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.71E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.97E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.60E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.84E+06	
t107	Strontium	3/1/93	B08V44	1.1	1.65E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.82E+06	
B203	Sr	1/7/83			1.75E+00	g/L	G	Sludge	Wastren	Sr	1.75E+06	
t107	Strontium	3/1/93	B08V44	1.1	1.56E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.72E+06	
t107	Strontium	3/1/93	B08V39	1.57	1.06E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.66E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.42E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.63E+06	
t107	Strontium	3/1/93	B08V39	1.57	1.02E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.60E+06	
B203	Sr	1/7/83	RAT-B203-1		0.1	wt. %	G	Sludge	Braun	Sr	1.60E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.38E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.59E+06	
t107	Strontium	3/1/93	B08T22	1.29	1.21E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.56E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.35E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.55E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.35E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.55E+06	
t107	Strontium	3/1/93	B08T22	1.29	1.20E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.55E+06	
U110	Sr	11/30/89	89-075		935	ugm/gm	G	Sludge	Braun	Sr	1.50E+06	
b201	Strontium	8/1/91	B08F21	1.3	1.15E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.49E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.29E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.48E+06	
b201	Strontium	8/1/91	B08F21	1.3	1.14E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.48E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.28E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.47E+06	
t107	Strontium	3/1/93	B08T22	1.29	1.14E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.47E+06	
U110	Strontium	12/1/89	Core Composite 12	1.42	1.01E+03	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.43E+06	
b201	Strontium	8/1/91	B08F21	1.3	1.07E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.38E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.17E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	1.35E+06	
t107	Strontium	3/1/93	B08VFO	1.38	9.60E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.32E+06	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
ASA Value: N/A
Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
BY103	Sr				5.98E+04	g-moles	S		TRAC	Sr	1.29E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	9.95E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.28E+06	
t107	Strontium	3/1/93	B08VFO	1.38	9.30E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.28E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	9.88E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.27E+06	
U110	Sr	11/10/89	89-043		777	ugm/gm	G	Sludge	Braun	Sr	1.24E+06	
U110	Strontium	12/1/89	Core 6 Segment 2	1.59	7.77E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	1.24E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	9.38E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.21E+06	
BY105	Sr				2.82E+03	g-moles	S		TRAC	Sr	1.21E+06	
U110	Strontium	12/1/89	Core 6 Segment 2	1.59	7.56E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.20E+06	
t107	Strontium	3/1/93	B08V43	1.15	1.03E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.18E+06	
b201	Strontium	8/1/91	B08F21	1.3	8.80E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.14E+06	
c112	Strontium	3/1/92	B08DN8	1.6	7.13E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.14E+06	
U110	Sr	9/19/89	89-040		692	ugm/gm	G	Sludge	Braun	Sr	1.11E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	8.53E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.10E+06	
U110	Sr	12/4/89	89-083		683	ugm/gm	G	Sludge	Braun	Sr	1.09E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	8.41E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.08E+06	
t107	Strontium	3/1/93	B08TZ3	0.95	1.14E+03	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.08E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	8.32E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.07E+06	
U110	Strontium	12/1/89	Core 13 Segment 3	1.14	9.35E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	1.07E+06	
U110	Strontium	12/1/89	Core 13 Segment 3	1.14	9.21E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.05E+06	
U110	Sr	9/19/89	89-040/1		637	ugm/gm	G	Sludge/Composite	Braun	Sr	1.02E+06	
t107	Strontium	3/1/93	B08TZ2	1.29	7.88E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.02E+06	
t107	Strontium	3/1/93	B08VB9	1.19	8.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.02E+06	
U110	Sr	12/4/89	89-082		630	ugm/gm	G	Sludge	Braun	Sr	1.01E+06	
c112	Strontium	3/1/92	B08DN8	1.6	6.29E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.01E+06	
c112	Strontium	3/1/92	B08DN8	1.6	6.26E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.00E+06	
U110	Strontium	12/1/89	Core 15 Segment 3	1.3	7.70E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.00E+06	
B110	Strontium	4/1/90	CORE 3 SEGMENT 3	1.3	7.61E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	9.89E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 1	1.24	7.95E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	9.86E+05	
U110	Strontium	12/1/89	Core Composite 6	1.54	6.39E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	9.84E+05	
c112	Strontium	3/1/92	B08DN8	1.6	6.15E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	9.84E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 3	1.3	7.56E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	9.82E+05	
BY104	Sr	10/26/92	riser 10b		6.14E+02	ug/g	S	fusion digestion	RAW	Sr	9.82E+05	
BY104	Sr	11/12/92	R-1775		614	ugm/gm	T	Crust	Braun	Sr	9.82E+05	
b202	Strontium	6/7/91	B08SP8	0.98	9.98E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	9.78E+05	
c112	Strontium	3/1/92	B08DN8	1.6	6.10E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	9.75E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 1	1.24	7.86E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	9.75E+05	
U110	Strontium	12/1/89	Core 12 Segment 4	1.48	6.56E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	9.71E+05	
c112	Strontium	3/1/92	B08DN8	1.6	6.07E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	9.70E+05	
t107	Strontium	3/1/93	B08TZ3	0.95	1.02E+03	ug/g	S	PRIMARY RESULT	TCD	Sr	9.69E+05	
t107	Strontium	3/1/93	B08VB9	1.19	8.14E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	9.69E+05	
U110	Sr	11/15/89	89-048		578	ugm/gm	G	Sludge	Braun	Sr	9.25E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Strontium	12/1/89	Core 7 Segment 3	1.53	5.93E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	9.07E+05	
c112	Strontium	3/1/92	B08DY1	2	4.51E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	9.01E+05	
B110	Strontium	4/1/90	Core Composite 3	1.36	6.58E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.94E+05	
t107	Strontium	3/1/93	B08VB9	1.19	7.51E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.94E+05	
B110	Strontium	4/1/90	Core Composite 3	1.36	6.55E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	8.91E+05	
t107	Strontium	3/1/93	B08VD9	1.305	6.81E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.89E+05	
U110	Strontium	12/1/89	Core 15 Segment 3	1.3	6.83E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	8.88E+05	
U110	Strontium	12/1/89	Core 7 Segment 3	1.53	5.78E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	8.84E+05	
B110	Strontium	4/1/90	CORE 18 SEGMENT 3	1.31	6.61E+02	ug/g	I		B110 Core Data	Sr	8.66E+05	
B110	Strontium	4/1/90	CORE 18 SEGMENT 3	1.31	6.61E+02	ug/g	I		B110 Core Data	Sr	8.66E+05	
U110	Sr	11/30/89	89-073/4/5/6		539	ugm/gm	G	Sludge/Composite	Braun	Sr	8.62E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 3	1.3	6.63E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	8.62E+05	
c112	Strontium	3/1/92	B08DY1	2	4.30E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.59E+05	
U110	Strontium	12/1/89	Core Composite 7	1.675	5.12E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	8.58E+05	
B110	Strontium	4/1/90	Core Composite 18	1.37	6.24E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.54E+05	
c109	Strontium	9/1/92	B08T16	1.3	6.57E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.54E+05	
S104	Sr	4/13/90			8.54E-01	g/L	G	Sludge	Wastren	Sr	8.54E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 3	1.3	6.56E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.52E+05	
c112	Strontium	3/1/92	B08DY1	2	4.26E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.52E+05	
U110	Strontium	12/1/89	Core Composite 15	1.29	6.58E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	8.49E+05	
B110	Strontium	4/1/90	Core Composite 18	1.37	6.19E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	8.48E+05	
B110	Strontium	4/1/90	Core Composite 18	1.37	6.18E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	8.47E+05	
U110	Sr	11/29/89	89-072		526	ugm/gm	G	Sludge	Braun	Sr	8.42E+05	
t107	Strontium	3/1/93	B08VB9	1.19	7.04E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.38E+05	
b201	Strontium	8/1/91	B08F17	1.2	6.93E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	8.32E+05	
B110	Strontium	4/1/90	Core Composite 18	1.37	6.05E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.29E+05	
U110	Sr	12/15/89	89-070/1/2		518	ugm/gm	G	Sludge/Composite	Braun	Sr	8.29E+05	
c112	Strontium	3/1/92	B08DY1	2	4.14E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.28E+05	
U110	Sr	11/10/89	89-044		517	ugm/gm	G	Sludge	Braun	Sr	8.27E+05	
c112	Strontium	3/1/92	B08DY1	2	4.13E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	8.26E+05	
B110	Strontium	4/1/90	Core Composite 3	1.36	6.04E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.21E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 5	1.3	6.26E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	8.14E+05	
c112	Strontium	3/1/92	B08DY1	2	4.04E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	8.08E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 5	1.3	6.21E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	8.08E+05	
b202	Strontium	6/7/91	B08SM4	1.35	5.98E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	8.07E+05	
s104	Strontium	8/1/92	B08TJ5	1.6	5.03E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	8.05E+05	
s104	Strontium	8/1/92	B08TJ5		5.03E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	8.05E+05	
BY112	Sr				6.26E+03	g-moles	S		TRAC	Sr	8.04E+05	
t107	Strontium	3/1/93	B08VD9	1.305	6.16E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	8.04E+05	
U110	Strontium	12/1/89	Core 15 Segment 2	1.27	6.30E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	8.00E+05	
U110	Strontium	12/1/89	Core 7 Segment 2	1.46	5.48E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	8.00E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 2	1.3	6.12E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	7.96E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Strontium	4/1/90	Core Composite 3	1.36	5.84E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	7.94E+05	
t107	Strontium	3/1/93	B08VB9	1.19	6.65E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.91E+05	
b202	Strontium	6/7/91	B08SM4	1.35	5.86E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	7.91E+05	
b202	Strontium	6/7/91	B08SM4	1.35	5.86E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	7.91E+05	
c112	Strontium	3/1/92	B08DY1	2	3.95E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.90E+05	
U110	Strontium	12/1/89	Core Composite 13	1.3	6.06E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.88E+05	
c112	Strontium	3/1/92	B08DY1	2	3.92E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.83E+05	
s104	Strontium	8/1/92	B08TL3	1.6	4.88E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.81E+05	
s104	Strontium	8/1/92	B08TL3		4.88E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.81E+05	
U110	Strontium	12/1/89	Core 12 Segment 4	1.48	5.26E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.78E+05	
t107	Strontium	3/1/93	B08VB9	1.19	6.52E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.76E+05	
t107	Strontium	3/1/93	B08VB9	1.19	6.52E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.76E+05	
b201	Strontium	8/1/91	B08RP3	1.2	6.40E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.68E+05	
c112	Strontium	3/1/92	B08DY1	2	3.84E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.68E+05	
U110	Strontium	12/1/89	Core Composite 15	1.29	5.94E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.67E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 5	1.36	5.64E+02	ug/g	I		B110 Core Data	Sr	7.67E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 5	1.36	5.64E+02	ug/g	I		B110 Core Data	Sr	7.67E+05	
U110	Strontium	12/1/89	Core Composite 5	1.04	7.36E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.66E+05	
b202	Strontium	6/7/91	B08SM4	1.35	5.64E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	7.61E+05	
s104	Strontium	8/1/92	B08TJ5	1.6	4.74E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.58E+05	
s104	Strontium	8/1/92	B08TJ5		4.74E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.58E+05	
b201	Strontium	8/1/91	B08RP3	1.2	6.31E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.57E+05	
t111	Strontium	11/1/91	B08SV7	1.09	6.93E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.55E+05	
T111	Sr	8/7/92	J-408	1.09	692.7	ugm/gm	G	Sludge	Braun	Sr	7.55E+05	
U110	Strontium	12/1/89	Core 5 Segment 3	1.04	7.26E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.55E+05	
c112	Strontium	3/1/92	B08DY1	2	3.75E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.50E+05	
U110	Strontium	12/1/89	Core Composite 6	1.54	4.87E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.50E+05	
c112	Strontium	3/1/92	B08DY1	2	3.73E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.45E+05	
t107	Strontium	3/1/93	B08VR2	1.735	4.29E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.44E+05	
b201	Strontium	8/1/91	B08RP3	1.2	6.18E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.42E+05	
b201	Strontium	8/1/91	B08F17	1.2	6.16E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.39E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 5	1.36	5.42E+02	ug/g	I		B110 Core Data	Sr	7.38E+05	
c112	Strontium	3/1/92	B08DY1	2	3.69E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.37E+05	
U110	Strontium	12/1/89	Core Composite 12	1.42	5.18E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.35E+05	
b201	Strontium	8/1/91	B08F17	1.2	6.11E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.34E+05	
U110	Strontium	12/1/89	Core Composite 12	1.42	5.16E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.32E+05	
U110	Strontium	12/1/89	Core Composite 13	1.3	5.63E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.31E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 5	1.36	5.38E+02	ug/g	I		B110 Core Data	Sr	7.31E+05	
s104	Strontium	8/1/92	B08S50	1.6	4.55E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	7.28E+05	
s104	Strontium	8/1/92	B08S50		4.55E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	7.28E+05	
B110	Strontium	4/1/90	CORE 18 SEGMENT 5	1.21	6.01E+02	ug/g	I		B110 Core Data	Sr	7.28E+05	
U110	Strontium	12/1/89	Core Composite 5	1.04	6.98E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.26E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Strontium	4/1/90	CORE 2 SEGMENT 5	1.28	5.65E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	7.23E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 5	1.3	5.56E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	7.22E+05	
B110	Strontium	4/1/90	CORE 18 SEGMENT 5	1.21	5.96E+02	ug/g	I		B110 Core Data	Sr	7.21E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 5	1.28	5.62E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	7.20E+05	
U110	Strontium	12/1/89	Core 5 Segment 3	1.04	6.92E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.20E+05	
t107	Strontium	3/1/93	B08VR2	1.735	4.14E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.18E+05	
U110	Strontium	12/1/89	Core Composite 5	1.04	6.87E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.14E+05	
c112	Strontium	3/1/92	B08DY1	2	3.57E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.13E+05	
c109	Strontium	9/1/92	B08T16	1.3	5.48E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.12E+05	
U110	Strontium	12/1/89	Core Composite 7	1.675	4.25E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.12E+05	
b201	Strontium	8/1/91	B08RP3	1.2	5.93E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.12E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 5	1.3	5.46E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	7.10E+05	
s104	Strontium	8/1/92	B08TJ4	1.6	4.40E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.04E+05	
s104	Strontium	8/1/92	B08TJ4		4.40E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	7.04E+05	
U110	Strontium	12/1/89	Core 6 Segment 3	1.22	5.77E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	7.04E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 5	1.3	5.41E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	7.04E+05	
c112	Strontium	3/1/92	B08DY1	2	3.52E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	7.04E+05	
U110	Strontium	12/1/89	Core Composite 13	1.3	5.39E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	7.01E+05	
B110	Strontium	4/1/90	CORE 3 SEGMENT 5	1.3	5.34E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.95E+05	
s104	Strontium	8/1/92	B08S48	1.6	4.34E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.94E+05	
s104	Strontium	8/1/92	B08TF7	1.6	4.34E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.94E+05	
s104	Strontium	8/1/92	B08TF7		4.34E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.94E+05	
s104	Strontium	8/1/92	B08S48		4.34E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.94E+05	
b202	Strontium	6/7/91	B08SM4	1.35	5.13E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.93E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 2	1.3	5.32E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.92E+05	
B110	Strontium	4/1/90	Core Composite 1	1.36	5.09E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.92E+05	
B110	Strontium	4/1/90	Core Composite 2	1.33	5.19E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.90E+05	
U110	Strontium	12/1/89	Core 15 Segment 2	1.27	5.41E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	6.87E+05	
S104	Sr	6/24/93	F-2177		429	ugm/gm	G	Sludge	Braun	Sr	6.86E+05	
B110	Strontium	4/1/90	Core Composite 1	1.36	5.04E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.85E+05	
B110	Strontium	4/1/90	Core Composite 1	1.36	5.04E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.85E+05	
S104	Sr	6/24/93	F-2175		428	ugm/gm	G	Sludge	Braun	Sr	6.85E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 2	1.3	5.25E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.82E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 2	1.3	5.25E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.82E+05	
U110	Sr	11/15/89	89-046/7/8/9		425	ugm/gm	G	Sludge/Composite	Braun	Sr	6.80E+05	
b202	Strontium	6/7/91	B08SP8	0.98	6.93E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.79E+05	
b201	Strontium	8/1/91	B08F17	1.2	5.65E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	6.78E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 3	1.3	5.21E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.77E+05	
s104	Strontium	8/1/92	B08S48	1.6	4.23E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.77E+05	
s104	Strontium	8/1/92	B08S48		4.23E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.77E+05	
B110	Strontium	4/1/90	Core Composite 1	1.36	4.94E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.72E+05	
b202	Strontium	6/7/91	B08SM4	1.35	4.98E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.72E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
s104	Strontium	8/1/92	B08TF6	1.6	4.16E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.66E+05	
s104	Strontium	8/1/92	B08TF6		4.16E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.66E+05	
s104	Strontium	8/1/92	B08TJ4	1.6	4.15E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.64E+05	
s104	Strontium	8/1/92	B08TJ4		4.15E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.64E+05	
U110	Strontium	12/1/89	Core Composite 5	1.04	6.37E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	6.63E+05	
B110	Strontium	4/1/90	Core Composite 2	1.33	4.98E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.62E+05	
B110	Strontium	4/1/90	Core Composite 2	1.33	4.95E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.59E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 3	1.3	5.04E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.55E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 5	1.24	5.27E+02	ug/g	I		B110 Core Data	Sr	6.54E+05	
b202	Strontium	6/7/91	B08SM2	1.02	6.40E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.53E+05	
S104	Sr	6/24/93	F-2171		408	ugm/gm	G	Sludge	Braun	Sr	6.53E+05	
c109	Strontium	9/1/92	B08T16	1.3	5.01E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	6.51E+05	
s104	Strontium	8/1/92	B08S50	1.6	4.06E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.50E+05	
s104	Strontium	8/1/92	B08S50		4.06E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.50E+05	
s104	Strontium	8/1/92	B08S48	1.6	4.05E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.48E+05	
s104	Strontium	8/1/92	B08S48		4.05E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.48E+05	
B110	Strontium	4/1/90	Core Composite 10	1.34	4.82E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.45E+05	
B110	Strontium	4/1/90	Core Composite 10	1.34	4.79E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.42E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 5	1.24	5.18E+02	ug/g	I		B110 Core Data	Sr	6.42E+05	
s104	Strontium	8/1/92	B08TF6	1.6	4.01E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.42E+05	
s104	Strontium	8/1/92	B08TF6		4.01E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.42E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.93E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	6.41E+05	
s104	Strontium	8/1/92	B08TF7	1.6	3.99E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.38E+05	
s104	Strontium	8/1/92	B08TF7		3.99E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.38E+05	
B110	Strontium	4/1/90	Core Composite 2	1.33	4.76E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.34E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 5	1.24	5.10E+02	ug/g	I		B110 Core Data	Sr	6.33E+05	
U110	Sr	12/3/89	89-078		395	ugm/gm	G	Sludge	Braun	Sr	6.32E+05	
U110	Strontium	12/1/89	Core 6 Segment 3	1.22	5.17E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	6.31E+05	
B110	Strontium	4/1/90	Core Composite 10	1.34	4.69E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.29E+05	
s104	Strontium	8/1/92	B08S48	1.6	3.91E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.26E+05	
s104	Strontium	8/1/92	B08S48		3.91E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.26E+05	
b202	Strontium	6/7/91	B08SM2	1.02	6.12E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.24E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 5	1.24	5.01E+02	ug/g	I		B110 Core Data	Sr	6.21E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 5	1.3	4.76E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.19E+05	
s104	Strontium	8/1/92	B08S50	1.6	3.86E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.18E+05	
s104	Strontium	8/1/92	B08S50		3.86E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.18E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 3	1.29	4.79E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.17E+05	
U110	Strontium	12/1/89	Core Composite 13	1.3	4.75E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	6.17E+05	
b202	Strontium	6/7/91	B08SM2	1.02	6.04E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.16E+05	
U110	Strontium	12/1/89	Core Composite 12	1.42	4.34E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	6.16E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 3	1.29	4.74E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.11E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.66E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	6.06E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
ASA Value: N/A

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Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Strontium	4/1/90	CORE 1 SEGMENT 3	1.3	4.64E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	6.04E+05	
b202	Strontium	6/7/91	B08SP8	0.98	6.13E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.01E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 3	1.3	4.62E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	6.00E+05	
U110	Strontium	12/1/89	Core Composite 7	1.675	3.58E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	6.00E+05	
b202	Strontium	6/7/91	B08SP6	0.98	6.12E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.00E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 2	1.24	4.83E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.99E+05	
s104	Strontium	8/1/92	B08TL4	1.6	3.73E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.97E+05	
s104	Strontium	8/1/92	B08TL4		3.73E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.97E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.59E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.97E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 2	1.24	4.80E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.96E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 2	1.24	4.80E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.96E+05	
U110	Strontium	12/1/89	Core 7 Segment 2	1.46	4.08E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.96E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 2	1.3	4.58E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.95E+05	
s104	Strontium	8/1/92	B08TL4	1.6	3.72E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.95E+05	
s104	Strontium	8/1/92	B08TL4		3.72E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.95E+05	
s104	Strontium	8/1/92	B08TL3	1.6	3.71E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.94E+05	
s104	Strontium	8/1/92	B08TL3		3.71E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.94E+05	
U110	Sr	12/4/89	89-082/3/4		370	ugm/gm	G	Sludge/Composite	Braun	Sr	5.92E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.54E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.90E+05	
s104	Strontium	8/1/92	B08TF7	1.6	3.68E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.89E+05	
s104	Strontium	8/1/92	B08TF7		3.68E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.89E+05	
B110	Strontium	4/1/90	Core Composite 10	1.34	4.38E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.86E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.50E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.85E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 5	1.3	4.50E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.84E+05	
b202	Strontium	6/7/91	B08C06	0.99	5.86E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.80E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 2	1.24	4.67E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.79E+05	
U110	Strontium	12/1/89	Core 14 Segment 2	1.39	4.15E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.77E+05	
c109	Strontium	9/1/92	B08T16	1.3	4.43E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	5.76E+05	
B110	Strontium	4/1/90	Core Composite 9	1.32	4.35E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.75E+05	
s104	Strontium	8/1/92	B08S50	1.6	3.59E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.74E+05	
s104	Strontium	8/1/92	B08S50		3.59E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.74E+05	
s104	Strontium	8/1/92	B08TF7	1.6	3.58E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.73E+05	
s104	Strontium	8/1/92	B08TF7		3.58E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.73E+05	
B110	Strontium	4/1/90	Core Composite 9	1.32	4.33E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.71E+05	
B110	Strontium	4/1/90	Core Composite 9	1.32	4.33E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.71E+05	
B110	Strontium	4/1/90	Core Composite 9	1.32	4.33E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.71E+05	
U110	Strontium	12/1/89	Core Composite 14	1.48	3.86E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.71E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 4	1.28	4.42E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.66E+05	
U110	Sr	11/30/89	89-076		353	ugm/gm	G	Sludge	Braun	Sr	5.65E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 3	1.3	4.34E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.64E+05	
b202	Strontium	6/7/91	B08C06	0.99	5.70E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.64E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 2	1.3	4.34E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.64E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	
b202	Strontium	6/7/91	BOBC06	0.99	5.68E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.62E+05	
c109	Strontium	9/1/92	BO8T16	1.3	4.31E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	5.60E+05	
s104	Strontium	8/1/92	BO8TJ5	1.6	3.50E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.60E+05	
s104	Strontium	8/1/92	BO8TJ5		3.50E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.60E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 4	1.28	4.37E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.60E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 3	1.3	4.29E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.58E+05	
U110	Sr	12/4/89	89-084		347	ugm/gm	G	Sludge	Braun	Sr	5.55E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 2	1.3	4.26E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.53E+05	
s104	Strontium	8/1/92	BO8TJ5	1.6	3.45E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.52E+05	
s104	Strontium	8/1/92	BO8TJ5		3.45E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.52E+05	
U110	Strontium	12/1/89	Core Composite 7	1.675	3.30E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.52E+05	
U110	Strontium	12/1/89	Core 14 Segment 2	1.39	3.95E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	5.49E+05	
U110	Strontium	12/1/89	Core Composite 6	1.54	3.56E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.48E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 4	1.3	4.20E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.46E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 3	1.29	4.22E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.45E+05	
c109	Strontium	9/1/92	BO8T17	1.2	4.53E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.44E+05	
B110	Strontium	4/1/90	Core Composite 4	1.36	3.99E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.43E+05	
s104	Strontium	8/1/92	BO8TF6	1.6	3.38E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.41E+05	
s104	Strontium	8/1/92	BO8TF6		3.38E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.41E+05	
B110	Strontium	4/1/90	Core Composite 4	1.36	3.97E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.40E+05	
t107	Strontium	3/1/93	BO8VFO	1.38	3.90E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	5.38E+05	
B110	Strontium	4/1/90	Core Composite 4	1.36	3.95E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.37E+05	
b202	Strontium	6/7/91	BOBC06	0.99	5.42E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.37E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 4	1.3	4.12E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.36E+05	
c109	Strontium	9/1/92	BO8T16	1.3	4.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.33E+05	
B110	Strontium	4/1/90	Core Composite 4	1.36	3.90E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.31E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 4	1.28	4.13E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.28E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 4	1.28	4.13E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.28E+05	
b202	Strontium	6/7/91	BO8SP6	0.98	5.38E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.27E+05	
b202	Strontium	6/7/91	BO8SP6	0.98	5.38E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.27E+05	
c109	Strontium	9/1/92	BO8T16	1.3	4.05E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	5.27E+05	
s104	Strontium	8/1/92	BO8TL3	1.6	3.29E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.26E+05	
s104	Strontium	8/1/92	BO8TL3		3.29E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.26E+05	
C106	Sr	10/10/74	RAT-C106-1		0.006	moles/l	G	Sludge	Braun	Sr	5.26E+05	
C106	Sr	1/6/75	RAT-C106-5		0.006	moles/l	G	Sludge	Braun	Sr	5.26E+05	
B110	Strontium	4/1/90	CORE 2 SEGMENT 3	1.29	4.07E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	5.26E+05	
s104	Strontium	8/1/92	BO8TJ4	1.6	3.28E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.25E+05	
s104	Strontium	8/1/92	BO8TJ4		3.28E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	5.25E+05	
s104	Strontium	8/1/92	BO8TJ4	1.6	3.27E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.23E+05	
s104	Strontium	8/1/92	BO8TJ4		3.27E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.23E+05	
U110	Sr	11/10/89	89-043/4/5		323	ugm/gm	G	Sludge/Composite	Braun	Sr	5.17E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 5	1.3	3.97E+02	ug/g	I		B110 Core Data	Sr	5.16E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte Information		ID
										Analyte	ug/L	
U110	Strontium	12/1/89	Core 13 Segment 4	1.46	3.53E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	5.15E+05	
s104	Strontium	8/1/92	B08TL3	1.6	3.21E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.14E+05	
s104	Strontium	8/1/92	B08TL3		3.21E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.14E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.72E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	5.13E+05	
c112	Strontium	3/1/92	B08DN8	1.6	3.20E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	5.11E+05	
b202	Strontium	6/7/91	B08C06	0.99	5.13E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.08E+05	
b202	Strontium	6/7/91	B08SP8	0.98	5.17E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.07E+05	
b202	Strontium	6/7/91	B08SP8	0.98	5.17E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	5.06E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 4	1.3	3.88E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	5.04E+05	
U110	Strontium	12/1/89	Core Composite 6	1.54	3.23E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	4.98E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.60E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.97E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 3	1.17	4.23E+02	ug/g	I		B110 Core Data	Sr	4.95E+05	
c109	Strontium	9/1/92	B08T17	1.2	4.12E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.94E+05	
B110	Strontium	4/1/90	CORE 1 SEGMENT 4	1.3	3.80E+02	ug/g	I	DUPLICATE	B110 Core Data	Sr	4.94E+05	
AX104	Sr	9/15/77			4.94E-01	g/L	G	Sludge	Wastren	Sr	4.94E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.57E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.93E+05	
b202	Strontium	6/7/91	B08C06	0.99	4.98E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.93E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 5	1.3	3.78E+02	ug/g	I		B110 Core Data	Sr	4.91E+05	
c109	Strontium	9/1/92	B08T17	1.2	4.09E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.91E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 3	1.17	4.18E+02	ug/g	I		B110 Core Data	Sr	4.89E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 5	1.3	3.75E+02	ug/g	I		B110 Core Data	Sr	4.88E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 5	1.3	3.75E+02	ug/g	I		B110 Core Data	Sr	4.88E+05	
c109	Strontium	9/1/92	B08T17	1.2	4.06E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.87E+05	
c109	Strontium	9/1/92	B08T17	1.2	4.06E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.87E+05	
c109	Strontium	9/1/92	B08T17	1.2	4.04E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.85E+05	
T111	Sr	8/7/92	J-466		303	ugm/gm	G	Sludge/Composite	Braun	Sr	4.85E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 4	1.3	3.72E+02	ug/g	I		B110 Core Data	Sr	4.83E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 4	1.3	3.72E+02	ug/g	I		B110 Core Data	Sr	4.83E+05	
b202	Strontium	6/7/91	B08SP8	0.98	4.91E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.81E+05	
c112	Strontium	3/1/92	B08DN8	1.6	2.99E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.78E+05	
U110	Strontium	12/1/89	Core Composite 15	1.29	3.70E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	4.77E+05	
U110	Strontium	12/1/89	Core 13 Segment 4	1.46	3.25E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.75E+05	
s104	Strontium	8/1/92	B08TF6	1.6	2.96E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.74E+05	
s104	Strontium	8/1/92	B08TF6		2.96E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.74E+05	
t111	Strontium	11/1/91	B08SQ9	1.13	4.19E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.73E+05	
t111	Strontium	11/1/91	B08SQ9	1.13	4.17E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.71E+05	
T111	Sr	8/7/92	J-414	1.13	417	ugm/gm	G	Sludge	Braun	Sr	4.71E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 1	1.23	3.82E+02	ug/g	I		B110 Core Data	Sr	4.70E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 1	1.23	3.80E+02	ug/g	I		B110 Core Data	Sr	4.67E+05	
T111	Sr	8/7/92	J-470		291	ugm/gm	G	Sludge/Composite	Braun	Sr	4.66E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 1	1.23	3.77E+02	ug/g	I		B110 Core Data	Sr	4.64E+05	
B110	Strontium	4/1/90	CORE 9 SEGMENT 1	1.23	3.77E+02	ug/g	I		B110 Core Data	Sr	4.64E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Strontium	3/1/93	B08V44	1.1	4.21E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.63E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.35E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.62E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.84E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.61E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 3	1.17	3.93E+02	ug/g	I		B110 Core Data	Sr	4.60E+05	
t111	Strontium	11/1/91	B08SV7	1.09	4.20E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.58E+05	
U110	Strontium	12/1/89	Core 15 Segment 4	1.31	3.47E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	4.55E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.29E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.54E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 4	1.3	3.49E+02	ug/g	I		B110 Core Data	Sr	4.54E+05	
s104	Strontium	8/1/92	B08TL4	1.6	2.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	4.53E+05	
s104	Strontium	8/1/92	B08TL4		2.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	4.53E+05	
U110	Sr	12/3/89	89-077/8/9/0		283	ugm/gm	G	Sludge/Composite	Braun	Sr	4.53E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.77E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.52E+05	
B110	Strontium	4/1/90	CORE 10 SEGMENT 3	1.17	3.86E+02	ug/g	I		B110 Core Data	Sr	4.52E+05	
t107	Strontium	3/1/93	B08V44	1.1	4.09E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.50E+05	
U110	Strontium	12/1/89	Core 7 Segment 4	1.93	2.32E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.48E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 4	1.3	3.44E+02	ug/g	I		B110 Core Data	Sr	4.47E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.69E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.43E+05	
t107	Strontium	3/1/93	B08VFO	1.38	3.19E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.40E+05	
c112	Strontium	3/1/92	B08DM7	1.6	2.75E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.39E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.72E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	4.39E+05	
B110	Strontium	4/1/90	CORE 4 SEGMENT 2	1.3	3.37E+02	ug/g	I	PRIMARY	B110 Core Data	Sr	4.38E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.63E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.36E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.67E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.35E+05	
c112	Strontium	3/1/92	B08DM7	1.6	2.72E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.34E+05	
U110	Strontium	12/1/89	Core Composite 14	1.48	2.87E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.24E+05	
s104	Strontium	8/1/92	B08TL4	1.6	2.64E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.22E+05	
s104	Strontium	8/1/92	B08TL4		2.64E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	4.22E+05	
U110	Strontium	12/1/89	Core Composite 14	1.48	2.83E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	4.19E+05	
t111	Strontium	11/1/91	B08SX5	1.06	3.83E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.06E+05	
U110	Strontium	12/1/89	Core 5 Segment 4		2.52E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	4.03E+05	
U110	Sr	9/19/89	89-041		252	ugm/gm	G	Sludge	Braun	Sr	4.03E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.33E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	4.03E+05	
T111	Sr	8/7/92	J-410	1.06	379.4	ugm/gm	G	Sludge	Braun	Sr	4.02E+05	
t111	Strontium	11/1/91	B08SX5	1.06	3.79E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.02E+05	
t107	Strontium	3/1/93	B08VFO	1.38	2.91E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	4.02E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.31E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	4.01E+05	
t107	Strontium	3/1/93	B08VFO	1.38	2.90E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	4.00E+05	
t111	Strontium	11/1/91	B08SX5	1.06	3.75E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.98E+05	
U110	Strontium	12/1/89	Core 7 Segment 4	1.93	2.03E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	3.92E+05	
t111	Strontium	11/1/91	B08SX5	1.06	3.68E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.90E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.16E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.87E+05	
b202	Strontium	6/7/91	B08SK0	0.93	4.16E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.87E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Strontium	12/1/89	Core 5 Segment 4		2.40E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	3.84E+05	
t107	Strontium	3/1/93	B08VF0	1.38	2.76E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.81E+05	
b202	Strontium	6/7/91	B08SP6	0.98	3.87E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.79E+05	
c112	Strontium	3/1/92	B08DN8	1.6	2.37E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.79E+05	
U110	Strontium	12/1/89	Core 15 Segment 4	1.31	2.89E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	3.79E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.13E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.76E+05	
t111	Strontium	11/1/91	B08SV7	1.09	3.44E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.75E+05	
c109	Strontium	9/1/92	B08T17	1.2	3.12E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.74E+05	
U110	Sr	11/29/89	89-071		234	ugm/gm	G	Sludge	Braun	Sr	3.74E+05	
t111	Strontium	11/1/91	B08ST9	1.11	3.33E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.70E+05	
B111	Sr	4/15/93	93-4312H1		228	ugm/gm	G	Sludge	Braun	Sr	3.65E+05	
b202	Strontium	6/7/91	B08SM2	1.02	3.57E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.64E+05	
U110	Strontium	12/1/89	Core Composite 15	1.29	2.82E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	3.64E+05	
c109	Strontium	9/1/92	B08T17	1.2	2.99E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.59E+05	
T111	Sr	8/7/92	J-404	1.11	321.2	ugm/gm	G	Sludge	Braun	Sr	3.57E+05	
c109	Strontium	9/1/92	B08T17	1.2	2.97E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.56E+05	
t111	Strontium	11/1/91	B08ST9	1.11	3.21E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.56E+05	
t111	Strontium	11/1/91	B08ST9	1.11	3.20E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.55E+05	
B111	Sr	4/15/93	93-4316H1		219	ugm/gm	G	Sludge	Braun	Sr	3.50E+05	
t111	Strontium	11/1/91	B08SV7	1.09	3.21E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.50E+05	
c112	Strontium	3/1/92	B08DN8	1.6	2.18E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.49E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.70E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.42E+05	
t111	Strontium	11/1/91	B08ST9	1.11	3.07E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.41E+05	
c112	Strontium	3/1/92	B08DM7	1.6	2.10E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.36E+05	
c112	Strontium	3/1/92	B08DM7	1.6	2.10E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.36E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.66E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.34E+05	
b111	Strontium	10/1/91	B08XB7	1.3	2.56E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.33E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.63E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.28E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.63E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.28E+05	
B111	Sr	3/8/93	92-04054H-1T		203	ugm/gm	G	Sludge	Braun	Sr	3.25E+05	
U110	Sr	11/15/89	89-049		203	ugm/gm	G	Sludge	Braun	Sr	3.25E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.61E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.24E+05	
TX118	Sr	10/16/81	RAT-TX118-6		0.0202	wt. %	S	Supernate/Solids	Braun	Sr	3.23E+05	
b202	Strontium	6/7/91	B08SM2	1.02	3.15E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.21E+05	
TX118	Sr	10/16/81			2.00E-02	is. solids conc., wt	S		RAW	Sr	3.20E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.59E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.20E+05	
U110	Strontium	12/1/89	Core Composite 14	1.48	2.15E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	3.18E+05	
B111	Sr	3/8/93	91-10553H-1T		194	ugm/gm	G	Sludge	Braun	Sr	3.10E+05	
b202	Strontium	6/7/91	B08SP6	0.98	3.16E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.10E+05	
T105	Sr	10/26/93	RAT-T105-2B	2.01	153	ugm/gm	G	Sludge/Composite	Braun	Sr	3.08E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.52E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	3.06E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.03E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	ID
b202	Strontium	6/7/91	B08SP6	0.98	3.07E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	3.01E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.88E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.00E+05	
BX107	Sr	10/20/92	J925-AV		187.76	ugm/gm	G	Sludge/Composite	Braun	Sr	3.00E+05	
U110	Strontium	12/1/89	Core 14 Segment 4	1.62	1.84E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.98E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.86E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.98E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.86E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.97E+05	
s104	Strontium	8/1/92	B08S46	1.6	1.85E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	2.96E+05	
s104	Strontium	8/1/92	B08S46		1.85E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	2.96E+05	
BX107	Sr	10/20/92	J925-AV		185	ugm/gm	G	Sludge/Composite	Braun	Sr	2.96E+05	
b111	Strontium	10/1/91	B08XB7	1.3	2.27E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.95E+05	
s104	Strontium	8/1/92	B08S46	1.6	1.83E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	2.93E+05	
s104	Strontium	8/1/92	B08S46		1.83E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	2.93E+05	
s104	Strontium	8/1/92	B08S46	1.6	1.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	2.93E+05	
s104	Strontium	8/1/92	B08S46		1.83E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	2.93E+05	
t105	Strontium	5/28/93	B08WT4	2.01	1.45E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.91E+05	
C105	Sr	5/8/87		1.55	1.84E+02	ug/g	I	Composite	RAW	Sr	2.85E+05	
C105	Sr	4/11/86	C1XCOOXX	1.55	184	ugm/gm	G	Sludge/Composite	Braun	Sr	2.85E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.77E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.83E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.77E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.83E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.76E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.81E+05	
C105	Sr	4/1/90			2.80E-01	g/L	G	Sludge	Wastren	Sr	2.80E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.74E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.79E+05	
s104	Strontium	8/1/92	B08S46	1.6	1.73E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	2.77E+05	
s104	Strontium	8/1/92	B08S46		1.73E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	2.77E+05	
b202	Strontium	6/7/91	B08SM2	1.02	2.69E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	2.74E+05	
BX107	Sr	10/20/92	J924-AV		170.7178	ugm/gm	G	Sludge/Composite	Braun	Sr	2.73E+05	
BX107	Sr	10/20/92	J927-AV		170	ugm/gm	G	Sludge/Composite	Braun	Sr	2.72E+05	
c112	Strontium	3/1/92	B08DN8	1.6	1.69E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.70E+05	
c112	Strontium	3/1/92	B08DN8	1.6	1.68E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.69E+05	
BY102	Sr				5.10E+03	g-moles	S		TRAC	Sr	2.66E+05	
b111	Strontium	10/1/91	B08XB7	1.3	2.03E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.64E+05	
b111	Strontium	10/1/91	B08XB7	1.3	2.03E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.64E+05	
b111	Strontium	10/1/91	B08XB3	1.3	1.97E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.56E+05	
BX107	Sr	10/20/92	J926-AV		160.04675	ugm/gm	G	Sludge/Composite	Braun	Sr	2.56E+05	
C105	Sr	2/1/91			1.60E+02	mg/kg	S	KOH Fusion	RAW	Sr	2.56E+05	
b111	Strontium	10/1/91	B08XB3	1.3	1.94E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.52E+05	
B111	Sr	3/8/93	92-04062H-1T		157	ugm/gm	G	Sludge	Braun	Sr	2.51E+05	
BX107	Sr	10/20/92	J926-AV		157	ugm/gm	G	Sludge/Composite	Braun	Sr	2.51E+05	
c112	Strontium	3/1/92	B08DM6	1.5	1.67E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.50E+05	
BX107	Sr	10/20/92	J927-AV		155.3081	ugm/gm	G	Sludge/Composite	Braun	Sr	2.48E+05	
BX107	Sr	10/20/92	J924-AV		154	ugm/gm	G	Sludge/Composite	Braun	Sr	2.46E+05	
b111	Strontium	10/1/91	B08XB3	1.3	1.88E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.44E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	ID
c109	Strontium	9/1/92	B08T15	1.2	2.03E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.44E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.51E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.41E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.50E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.39E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.47E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.35E+05	
U110	Strontium	12/1/89	Core 12 Segment 3	1	2.34E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	2.34E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.46E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.33E+05	
U110	Strontium	12/1/89	Core 12 Segment 3	1	2.32E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.32E+05	
bx107	Strontium	6/1/92	B08SF0	1.326	1.74E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.31E+05	
bx107	Strontium	6/1/92	B08SF0	1.326	1.74E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.31E+05	
bx107	Strontium	6/1/92	B08SF0	1.326	1.73E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.29E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.42E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.28E+05	
c109	Strontium	9/1/92	B08T15	1.2	1.89E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.27E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.42E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.27E+05	
A102	Sr	2/24/87	91xcooxx R-4	1.52	1.48E+02	ug/g	I	Composite Composite	RAW	Sr	2.25E+05	
A102	Sr	3/6/86	91XCOOXX	1.52	148	ugm/gm	G	Sludge/Composite	Braun	Sr	2.25E+05	
bx107	Strontium	6/1/92	B08SD6	0.996	2.25E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.24E+05	
bx107	Strontium	6/1/92	B08SF0	1.326	1.69E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.24E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.39E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.22E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.39E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.22E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.37E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.20E+05	
bx107	Strontium	6/1/92	B08SD6	0.996	2.18E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.17E+05	
U110	Strontium	12/1/89	Core 6 Segment 4	1.8	1.20E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	2.16E+05	
C112	Sr				9.80E+01	g-moles	S		TRAC	Sr	2.16E+05	
bx107	Strontium	6/1/92	B08SD6	0.996	2.17E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.16E+05	
bx107	Strontium	6/1/92	B08SD6	0.996	2.16E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.15E+05	
c112	Strontium	3/1/92	B08DM7	1.6	1.34E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.14E+05	
U110	Sr	12/3/89	89-079		132	ugm/gm	G	Sludge	Braun	Sr	2.11E+05	
b111	Strontium	10/1/91	B08XB3	1.3	1.62E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.11E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.61E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.09E+05	
c112	Strontium	3/1/92	B08DM6	1.5	1.37E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.06E+05	
U110	Strontium	12/1/89	Core 7 Segment 1	1.78	1.15E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.05E+05	
BY109	Sr				3.40E+03	g-moles	S		TRAC	Sr	2.04E+05	
c109	Strontium	9/1/92	B08T15	1.2	1.69E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	2.03E+05	
C102	Sr	2/1/91			1.25E+02	mg/kg	S	Na2O2 Fusion	RAW	Sr	2.00E+05	
C102	Sr	2/1/91	2		1.25E+02	mg/kg	S	Total	RAW	Sr	2.00E+05	
c109	Strontium	9/1/92	B08T15	1.2	1.66E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.99E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.53E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.99E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.52E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.98E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.51E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.96E+05	
U110	Strontium	12/1/89	Core 14 Segment 4	1.62	1.20E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	1.94E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.49E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.94E+05	
C106	Sr	4/1/90			1.93E-01	g/L	G	Sludge	Wastren	Sr	1.93E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Sr	11/10/89	89-045		120	ugm/gm	G	Sludge	Braun	Sr	1.92E+05	
U110	Sr	12/3/89	89-080		120	ugm/gm	G	Sludge	Braun	Sr	1.92E+05	
U110	Strontium	12/1/89	Core 6 Segment 4	1.8	1.06E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.91E+05	
U110	Strontium	12/1/89	Core 14 Segment 3	1.4	1.32E+02	ug/g	I	PRIMARY	U110 Core Data	Sr	1.85E+05	
C106	Sr	4/1/90	1		1.10E+02	mg/kg	S		RAW	Sr	1.76E+05	
C106	Sr	2/1/91			1.10E+02	mg/kg	S	KOH Fusion	RAW	Sr	1.76E+05	
b202	Strontium	6/7/91	B08SP5	0.87	2.01E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.75E+05	
c109	Strontium	9/1/92	B08T15	1.2	1.43E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.72E+05	
U110	Strontium	12/1/89	Core 14 Segment 3	1.4	1.21E+02	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.69E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.28E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.67E+05	
c109	Strontium	9/1/92	B08T15	1.2	1.38E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.66E+05	
C106	Sr	5/19/86			1.03E+02	ug/g	I	Composite	RAW	Sr	1.65E+05	
T111	Sr	8/7/92	J-402	0.93	177.2	ugm/gm	G	Sludge	Braun	Sr	1.65E+05	
t111	Strontium	11/1/91	B08ST7	0.93	1.77E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.65E+05	
t111	Strontium	11/1/91	B08ST7	0.93	1.77E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.65E+05	
t111	Strontium	11/1/91	B08ST7	0.93	1.76E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.64E+05	
T104	Sr	1/26/93	T104-C45-C1		98.2	ugm/gm	G	Sludge/Composite	Braun	Sr	1.57E+05	
b111	Strontium	10/1/91	B08XB9	1	1.57E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.57E+05	
b111	Strontium	10/1/91	B08XB9	1	1.56E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.56E+05	
C103	Sr	5/8/87	F1XCXXXX	1.13	1.38E+02	ug/g	I	Composite	RAW	Sr	1.56E+05	
C103	Sr	5/7/86	F1XCOOXX	1.13	138	ugm/gm	G	Sludge/Composite	Braun	Sr	1.56E+05	
t111	Strontium	11/1/91	B08ST7	0.93	1.67E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.55E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.19E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.55E+05	
b111	Strontium	10/1/91	B08XB9	1	1.53E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.53E+05	
b111	Strontium	10/1/91	B08XB9	1	1.51E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.51E+05	
c112	Strontium	3/1/92	B08DN6	1.3	1.16E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.50E+05	
C103	Sr	5/8/87	F1XCXXXX	1.54	9.69E+01	ug/g	I	Composite	RAW	Sr	1.49E+05	
C103	Sr	5/14/86	F2XCOOXX	1.54	96.9	ugm/gm	G	Sludge/Composite	Braun	Sr	1.49E+05	
T104	Sr	1/26/93	T104-C45-C2		92.7	ugm/gm	G	Sludge/Composite	Braun	Sr	1.48E+05	
C106	Sr	4/14/87		1.43	1.03E+02	ug/g	S		RAW	Sr	1.47E+05	
C106	Sr	4/17/87	G1xcxxxxR-1	1.43	1.03E+02	ug/g	I	Composite	RAW	Sr	1.47E+05	
C106	Sr	5/19/86	G1XCOOXX	1.43	103	ugm/gm	G	Sludge/Composite	Braun	Sr	1.47E+05	
b202	Strontium	6/7/91	B08SP5	0.87	1.68E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.46E+05	
BX104	Sr	1/5/88	71xcxxxxR-1	1.85	7.71E+01	ug/g	I	Composite	RAW	Sr	1.43E+05	
BX104	Strontium	2/14/86	71XCOOXX	1.85	77.1	ugm/gm	G	Sludge/Composite	Braun	Sr	1.43E+05	
t104	Strontium	8/26/92	B08S09	1.13	1.26E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.42E+05	
BX102	Sr				3.43E+02	g-moles	S		TRAC	Sr	1.41E+05	
t104	Strontium	8/26/92	B08S09	1.13	1.21E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.37E+05	
t104	Strontium	8/26/92	B08S09	1.13	1.21E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.37E+05	
b202	Strontium	6/7/91	B08SP5	0.87	1.55E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.35E+05	
t104	Strontium	8/26/92	B08S09	1.13	1.18E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.33E+05	
c109	Strontium	9/1/92	B08T17	1.2	1.11E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	1.33E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]

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ASA Value: N/A

Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	ID
C102	Sr	2/1/91			8.00E+01	mg/kg	S	KOH Fusion	RAW	Sr	1.28E+05	
C102	Sr	2/1/91			8.00E+01	mg/kg	S	KOH Fusion	RAW	Sr	1.28E+05	
C102	Sr	2/1/91	1		8.00E+01	mg/kg	S	Total	RAW	Sr	1.28E+05	
b202	Strontium	6/7/91	B08SP5	0.87	1.40E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.22E+05	
b202	Strontium	6/7/91	B08SP5	0.87	1.39E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.21E+05	
b202	Strontium	6/7/91	B08SP5	0.87	1.39E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.21E+05	
t105	Strontium	5/28/93	B08WT2	0.89	1.33E+02	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.18E+05	
t105	Strontium	5/28/93	B08WT2	0.89	1.26E+02	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.12E+05	
c109	Strontium	9/1/92	B08T17	1.2	9.30E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.12E+05	
BX105	Sr	1/5/88	81xcxxxxR-4	1.58	7.05E+01	ug/g	I	Composite	RAW	Sr	1.11E+05	
BX105	Strontium	3/3/86	81XCOOXX	1.58	70.5	ugm/gm	G	Sludge/Composite	Braun	Sr	1.11E+05	
C104	Sr	4/15/86			9.83E-02	g/L	G	Sludge	Wastren	Sr	9.83E+04	
C104	Sr	4/15/86	D1XCOOXX	1.21	81.2	ugm/gm	G	Sludge/Composite	Braun	Sr	9.83E+04	
t111	Strontium	11/1/91	B08T5	0.88	1.10E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	9.68E+04	
A106	Sr	1/5/88	A2xcxxxx R-20	1.54	6.26E+01	ug/g	I	Composite Composite	RAW	Sr	9.64E+04	
A106	Strontium	3/13/86	A2XCOOXX	1.54	62.6	ugm/gm	G	Sludge/Composite	Braun	Sr	9.64E+04	
A106	Sr	3/13/86			9.64E-02	g/L	G	Sludge	Wastren	Sr	9.64E+04	
c109	Strontium	9/1/92	B08T17	1.2	7.90E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	9.48E+04	
t111	Strontium	11/1/91	B08T5	0.88	1.04E+02	ug/g	S	PRIMARY RESULT	TCD	Sr	9.15E+04	
c109	Strontium	9/1/92	B08T17	1.2	7.50E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	9.00E+04	
t111	Strontium	11/1/91	B08T5	0.88	1.02E+02	ug/g	S	DUPLICATE RESULT	TCD	Sr	8.98E+04	
t111	Strontium	11/1/91	B08T5	0.88	9.90E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	8.71E+04	
T111	Sr	8/7/92	J-398	0.88	99	ugm/gm	G	Sludge	Braun	Sr	8.71E+04	
BX104	Sr	1/5/88	72xcxxxxR-8	1.76	4.66E+01	ug/g	I	Composite	RAW	Sr	8.20E+04	
A102	Sr	1/5/88	92xcxxx R-4	1.66	4.71E+01	ug/g	I	Composite Composite	RAW	Sr	7.82E+04	
A102	Sr	3/8/86	92XCOOXX	1.66	47.1	ugm/gm	G	Sludge/Composite	Braun	Sr	7.82E+04	
BX104	Sr	2/26/86			7.80E-02	g/L	G	Sludge	Wastren	Sr	7.80E+04	
BX104	Strontium	2/26/86	72XCOOXX	1.673	46.6	ugm/gm	G	Sludge/Composite	Braun	Sr	7.80E+04	
A102	Sr	3/8/86	92XCOOXX	1.66	46.4	ugm/gm	G	Sludge/Composite	Braun	Sr	7.70E+04	
BX105	Sr	1/5/88	82xcxxxxR-8	1.79	4.19E+01	ug/g	I	Composite	RAW	Sr	7.50E+04	
BX105	Strontium	3/4/86	82XCOOXX	1.79	41.9	ugm/gm	G	Sludge/Composite	Braun	Sr	7.50E+04	
BX105	Sr	3/4/86			7.50E-02	g/L	G	Sludge	Wastren	Sr	7.50E+04	
t107	Strontium	3/1/93	B08VD8	1.42	5.06E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	7.19E+04	
C102	Sr	12/1/86	RAT-C102-2		41.7	ugm/gm	I	Composite	Braun	Sr	6.67E+04	
t107	Strontium	3/1/93	B08VD8	1.42	4.67E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	6.63E+04	
A106	Sr	1/5/88	A1xcxxxx R-17	1.56	4.19E+01	ug/g	I	Composite Composite	RAW	Sr	6.54E+04	
A106	Strontium	3/11/86	A1XCOOXX	1.56	41.9	ugm/gm	G	Sludge/Composite	Braun	Sr	6.54E+04	
C102	Sr	2/1/91	2		4.07E+01	mg/kg	S	water leach	RAW	Sr	6.51E+04	
A106	Strontium	3/11/86	A1XCOOXX	1.56	41.4	ugm/gm	G	Sludge/Composite	Braun	Sr	6.46E+04	
C102	Sr	2/1/91	1		3.95E+01	mg/kg	S	water leach	RAW	Sr	6.32E+04	
C102	Sr	7/10/86	E1XCOOXX	1.351	41.7	ugm/gm	G	Sludge/Composite	Braun	Sr	5.63E+04	
U110	Strontium	12/1/89	Core Composite 8		2.90E+01	ug/g	I	PRIMARY	U110 Core Data	Sr	4.64E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Sr	11/17/89	89-050		29	ugm/gm	G	Sludge/Composite	Braun	Sr	4.64E+04	
BX105	Sr				8.84E+02	g-moles	S		TRAC	Sr	3.86E+04	
t102	Strontium	3/1/93	BOB732	1.32	2.50E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	3.30E+04	
t102	Strontium	3/1/93	BOB732	1.32	2.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	3.17E+04	
t102	Strontium	3/1/93	BOB732	1.32	2.30E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	3.04E+04	
t102	Strontium	3/1/93	BOB732	1.32	2.10E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.77E+04	
t102	Strontium	3/1/93	BOB732	1.32	1.90E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.51E+04	
U110	Strontium	12/1/89	Core Composite 8		1.50E+01	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.40E+04	
t102	Strontium	3/1/93	BOB732	1.32	1.80E+01	ug/g	S	DUPLICATE RESULT	TCD	Sr	2.38E+04	
t102	Strontium	3/1/93	BOB732	1.32	1.80E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	2.38E+04	
U110	Strontium	12/1/89	Core 7 Segment 1	1.78	1.30E+01	ug/g	I	PRIMARY	U110 Core Data	Sr	2.31E+04	
t102	Strontium	3/1/93	BOB732	1.32	1.70E+01	ug/g	S	PRIMARY RESULT	TCD	Sr	2.24E+04	
A103	Sr	4/3/86			2.12E-02	g/L	K	Saltcake	Wastren	Sr	2.12E+04	
A103	Sr	3/3/87	B2xcxxxx R-12	1.35	1.57E+01	ug/g	I	Composite Composite	RAW	Sr	2.12E+04	
A103	Strontium	4/3/86	B2XCOOXX	1.35	15.7	ugm/gm	G	Sludge/Composite	Braun	Sr	2.12E+04	
U110	Sr	11/15/89	89-046		13	ugm/gm	G	Sludge	Braun	Sr	2.08E+04	
U110	Strontium	12/1/89	Core Composite 12	1.42	1.35E+01	ug/g	I	PRIMARY	U110 Core Data	Sr	1.91E+04	
C102	Sr	2/1/91	1		1.10E+01	mg/kg	S	water leach	RAW	Sr	1.76E+04	
U110	Strontium	12/1/89	Core Composite 12	1.42	1.02E+01	ug/g	I	DUPLICATE	U110 Core Data	Sr	1.45E+04	
C102	Sr	2/1/91	2		9.00E+00	mg/kg	S	water leach	RAW	Sr	1.44E+04	
c112	Strontium	3/1/92	BO8DY1	2	5.80E+00	ug/g	S	DUPLICATE RESULT	TCD	Sr	1.16E+04	
BX103	Sr				3.69E+02	g-moles	S		TRAC	Sr	1.11E+04	
A103	Sr	2/24/87	B1xcxxx R-17	1.34	8.24E+00	ug/g	I	Composite Composite	RAW	Sr	1.10E+04	
A103	Strontium	3/26/86	B1XCOOXX	1.34	8.24	ugm/gm	G	Sludge/Composite	Braun	Sr	1.10E+04	
C102	Sr	7/10/86	E1XCOOXM		5.82	ugm/gm	G	Sludge/Composite	Braun	Sr	9.31E+03	
c112	Strontium	3/1/92	BO8DY1	2	4.50E+00	ug/g	S	PRIMARY RESULT	TCD	Sr	9.00E+03	
BX107	Sr	10/20/92	J927-AV		5.0048	ugm/gm	G	Sludge/Composite	Braun	Sr	8.01E+03	
t105	Strontium	5/28/93	BO8WT4	2.01	3.08E+00	ug/g	S	DUPLICATE RESULT	TCD	Sr	6.19E+03	
t105	Strontium	5/28/93	BO8WT4	2.01	3.08E+00	ug/g	S	PRIMARY RESULT	TCD	Sr	6.19E+03	
U110	Strontium	12/1/89	Core Composite 14	1.48	3.99E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	5.90E+03	
BX104	Sr				1.34E+02	g-moles	S		TRAC	Sr	5.84E+03	
U110	Strontium	12/1/89	Core Composite 15	1.29	4.49E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.79E+03	
U110	Strontium	12/1/89	Core Composite 14	1.48	3.89E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.75E+03	
U110	Strontium	12/1/89	Core Composite 7	1.675	3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	5.03E+03	
U110	Strontium	12/1/89	Core Composite 7	1.675	3.00E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	5.03E+03	
U110	Strontium	12/1/89	Core Composite 8		3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	4.80E+03	
U110	Strontium	12/1/89	Core Composite 8		3.00E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.80E+03	
U110	Strontium	12/1/89	Core Composite 6	1.54	3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	4.62E+03	
U110	Strontium	12/1/89	Core Composite 6	1.54	3.00E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.62E+03	
U110	Strontium	12/1/89	Core 14 Segment 1	1.5	3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	4.50E+03	
U110	Strontium	12/1/89	Core 14 Segment 1	1.5	3.00E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	4.50E+03	
U110	Strontium	12/1/89	Core Composite 15	1.29	3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	3.87E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
ASA Value: N/A

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Sr was not used in evaluation

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Strontium	12/1/89	Core Composite 13	1.3	2.95E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	3.83E+03	
B110	Strontium	4/1/90	Core Composite 3	1.36	2.44E+00	ug/g	I	PRIMARY	B110 Core Data	Sr	3.32E+03	
B110	Strontium	4/1/90	Core Composite 10	1.34	2.45E+00	ug/g	I	DUPLICATE	B110 Core Data	Sr	3.28E+03	
B110	Strontium	4/1/90	Core Composite 10	1.34	2.45E+00	ug/g	I	PRIMARY	B110 Core Data	Sr	3.28E+03	
B110	Strontium	4/1/90	Core Composite 2	1.33	2.35E+00	ug/g	I	PRIMARY	B110 Core Data	Sr	3.12E+03	
U110	Strontium	12/1/89	Core Composite 5	1.04	3.00E+00	ug/g	I	PRIMARY	U110 Core Data	Sr	3.12E+03	
U110	Strontium	12/1/89	Core Composite 5	1.04	3.00E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	3.12E+03	
B110	Strontium	4/1/90	Core Composite 4	1.36	2.19E+00	ug/g	I	DUPLICATE	B110 Core Data	Sr	2.98E+03	
BX107	Sr	10/20/92	J924-AV		1.6991	ugm/gm	G	Sludge/Composite	Braun	Sr	2.72E+03	
BX107	Sr	10/20/92	J926-AV		1.6636	ugm/gm	G	Sludge/Composite	Braun	Sr	2.66E+03	
B110	Strontium	4/1/90	Core Composite 18	1.37	1.84E+00	ug/g	I	PRIMARY	B110 Core Data	Sr	2.52E+03	
U110	Strontium	12/1/89	Core Composite 13	1.3	1.89E+00	ug/g	I	DUPLICATE	U110 Core Data	Sr	2.46E+03	
B110	Strontium	4/1/90	Core Composite 18	1.37	1.71E+00	ug/g	I	DUPLICATE	B110 Core Data	Sr	2.34E+03	
BX107	Sr	10/20/92	J925-AV		1.46	ugm/gm	G	Sludge/Composite	Braun	Sr	2.34E+03	
s104	Strontium	8/1/92	B08TF6	1.6	1.08E+00	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.73E+03	
s104	Strontium	8/1/92	B08TF6		1.08E+00	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.73E+03	
s104	Strontium	8/1/92	B08TJ4	1.6	9.27E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.48E+03	
s104	Strontium	8/1/92	B08TJ4		9.27E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.48E+03	
s104	Strontium	8/1/92	B08TJ5	1.6	8.33E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.33E+03	
s104	Strontium	8/1/92	B08TJ5		8.33E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	1.33E+03	
s104	Strontium	8/1/92	B08TL4	1.6	8.24E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.32E+03	
s104	Strontium	8/1/92	B08TL4		8.24E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.32E+03	
s104	Strontium	8/1/92	B08TJ4	1.6	7.77E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.24E+03	
s104	Strontium	8/1/92	B08TJ4		7.77E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.24E+03	
s104	Strontium	8/1/92	B08TJ5	1.6	6.95E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.11E+03	
s104	Strontium	8/1/92	B08TJ5		6.95E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.11E+03	
s104	Strontium	8/1/92	B08TL3	1.6	6.88E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.10E+03	
s104	Strontium	8/1/92	B08TL3		6.88E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	1.10E+03	
BX106	Sr				5.10E+01	g-moles	S		TRAC	Sr	1.09E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
s104	Strontium	8/1/92	B08TL3	1.6	6.12E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	9.79E+02	
s104	Strontium	8/1/92	B08TL3		6.12E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	9.79E+02	
s104	Strontium	8/1/92	B08TL4	1.6	6.11E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	9.78E+02	
s104	Strontium	8/1/92	B08TL4		6.11E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	9.78E+02	
t105	Strontium	5/28/93	B08WT2	0.89	1.04E+00	ug/g	S	DUPLICATE RESULT	TCD	Sr	9.26E+02	
t105	Strontium	5/28/93	B08WT2	0.89	9.17E-01	ug/g	S	PRIMARY RESULT	TCD	Sr	8.16E+02	
s104	Strontium	8/1/92	B08TF7	1.6	4.08E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.53E+02	
s104	Strontium	8/1/92	B08TF7		4.08E-01	mg/kg	S	DUPLICATE RESULT	TCD	Sr	6.53E+02	
s104	Strontium	8/1/92	B08TF7	1.6	4.06E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.50E+02	
s104	Strontium	8/1/92	B08TF6	1.6	4.06E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.50E+02	
s104	Strontium	8/1/92	B08TF6		4.06E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.50E+02	
s104	Strontium	8/1/92	B08TF7		4.06E-01	mg/kg	S	PRIMARY RESULT	TCD	Sr	6.50E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Single-Shell Tank Solids [Sketch ES-VAL-CC40]
 ASA Value: N/A
 Sr was not used in evaluation

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Reported Unit	Code	Sample State	Source	Analyte	ug/L	
C102	Sr	2/1/91	1		5.40E-01	ug/mL	S	water leach	RAW	Sr	5.40E+02	
C102	Sr	2/1/91	2		4.50E-01	ug/mL	S	water leach	RAW	Sr	4.50E+02	
AX104	Sr				9.24E-02	g-moles	S		TRAC	Sr	3.31E+02	
TY104	Sr				2.11E-05	g-moles	S		TRAC	Sr	1.22E+00	
TY103	Sr				3.45E-04	g-moles	S		TRAC	Sr	3.80E-01	
C104	Sr				5.54E-08	g-moles	S		TRAC	Sr	1.00E-05	
A101	Sr				5.73E-08	g-moles	S		TRAC	Sr	4.85E-06	
C106	Sr				7.41E-09	g-moles	S		TRAC	Sr	3.43E-06	
A104	Sr				3.25E-21	g-moles	S		TRAC	Sr	2.61E-19	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Tellurium Single-Shell Tank Solids [Sketch ES-VAL-CC42]
ASA Value: 1.96E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Tellurium	4/1/90	CORE 10 SEGMENT 3	1.17	8.26E+02	ug/g	I		B110 Core Data	Te	9.67E+05	31
B110	Tellurium	4/1/90	Core Composite 18	1.37	5.74E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	7.86E+05	31
B110	Tellurium	4/1/90	Core Composite 9	1.32	5.95E+02	ug/g	I	PRIMARY	B110 Core Data	Te	7.85E+05	31
B110	Tellurium	4/1/90	Core Composite 18	1.37	4.20E+02	ug/g	I	PRIMARY	B110 Core Data	Te	5.76E+05	31
B110	Tellurium	4/1/90	Core Composite 1	1.36	4.09E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	5.56E+05	31
B110	Tellurium	4/1/90	Core Composite 9	1.32	4.01E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	5.29E+05	31
B110	Tellurium	4/1/90	Core Composite 1	1.36	3.31E+02	ug/g	I	PRIMARY	B110 Core Data	Te	4.50E+05	31
B110	Tellurium	4/1/90	CORE 2 SEGMENT 2	1.24	3.62E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	4.49E+05	31
B110	Tellurium	4/1/90	Core Composite 4	1.36	2.96E+02	ug/g	I	PRIMARY	B110 Core Data	Te	4.03E+05	31
B110	Tellurium	4/1/90	Core Composite 10	1.34	2.79E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	3.74E+05	31
B110	Tellurium	4/1/90	Core Composite 3	1.36	2.59E+02	ug/g	I	PRIMARY	B110 Core Data	Te	3.52E+05	31
B110	Tellurium	4/1/90	CORE 4 SEGMENT 4	1.3	2.34E+02	ug/g	I		B110 Core Data	Te	3.05E+05	31
B110	Tellurium	4/1/90	Core Composite 1	1.36	2.24E+02	ug/g	I	PRIMARY	B110 Core Data	Te	3.04E+05	31
B110	Tellurium	4/1/90	Core Composite 4	1.36	2.19E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	2.98E+05	31
B110	Tellurium	4/1/90	CORE 4 SEGMENT 3	1.3	2.04E+02	ug/g	I	PRIMARY	B110 Core Data	Te	2.66E+05	31
B110	Tellurium	4/1/90	Core Composite 2	1.33	1.83E+02	ug/g	I	PRIMARY	B110 Core Data	Te	2.43E+05	31
B110	Tellurium	4/1/90	Core Composite 1	1.36	1.65E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	2.25E+05	31
ASA Value: 1.96E+05 ug/L												
c112	Tellurium	3/1/92	B08DN8	1.6	1.23E+02	ug/g	S	DUPLICATE RESULT	TCD	Te	1.96E+05	*
B110	Tellurium	4/1/90	Core Composite 2	1.33	1.43E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	1.90E+05	
c112	Tellurium	3/1/92	B08DN8	1.6	1.11E+02	ug/g	S	PRIMARY RESULT	TCD	Te	1.78E+05	
B110	Tellurium	4/1/90	Core Composite 3	1.36	1.08E+02	ug/g	I	DUPLICATE	B110 Core Data	Te	1.46E+05	
B110	Tellurium	4/1/90	Core Composite 1	1.36	9.49E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	1.29E+05	
B110	Tellurium	4/1/90	Core Composite 1	1.36	9.00E+01	ug/g	I	PRIMARY	B110 Core Data	Te	1.22E+05	
B110	Tellurium	4/1/90	Core Composite 10	1.34	8.07E+01	ug/g	I	PRIMARY	B110 Core Data	Te	1.08E+05	
B110	Tellurium	4/1/90	Core Composite 2	1.33	5.87E+01	ug/g	I	PRIMARY	B110 Core Data	Te	7.80E+04	
B110	Tellurium	4/1/90	Core Composite 2	1.33	5.16E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	6.87E+04	
B110	Tellurium	4/1/90	Core Composite 4	1.36	4.83E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	6.56E+04	
B110	Tellurium	4/1/90	CORE 3 SEGMENT 3	1.3	5.01E+01	ug/g	I	PRIMARY	B110 Core Data	Te	6.51E+04	
c112	Tellurium	3/1/92	B08DY1	2	3.16E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	6.32E+04	
B110	Tellurium	4/1/90	Core Composite 10	1.34	4.40E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.90E+04	
B110	Tellurium	4/1/90	CORE 3 SEGMENT 3	1.3	4.53E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.89E+04	
B110	Tellurium	4/1/90	Core Composite 18	1.37	4.23E+01	ug/g	I	PRIMARY	B110 Core Data	Te	5.79E+04	
B110	Tellurium	4/1/90	Core Composite 3	1.36	4.16E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.65E+04	
B110	Tellurium	4/1/90	CORE 2 SEGMENT 2	1.24	4.46E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.53E+04	
c109	Tellurium	9/1/92	B08T17	1.2	4.60E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	5.52E+04	
B110	Tellurium	4/1/90	CORE 10 SEGMENT 5	1.36	4.01E+01	ug/g	I		B110 Core Data	Te	5.45E+04	
c109	Tellurium	9/1/92	B08T17	1.2	4.40E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	5.28E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Tellurium Single-Shell Tank Solids [Sketch ES-VAL-CC42]
 ASA Value: 1.96E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Tellurium	4/1/90	CORE 4 SEGMENT 3	1.3	4.04E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.25E+04	
c112	Tellurium	3/1/92	B08DY1	2	2.61E+01	ug/g	S	PRIMARY RESULT	TCD	Te	5.22E+04	
B110	Tellurium	4/1/90	Core Composite 18	1.37	3.74E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	5.13E+04	
B110	Tellurium	4/1/90	Core Composite 9	1.32	3.73E+01	ug/g	I	PRIMARY	B110 Core Data	Te	4.93E+04	
c112	Tellurium	3/1/92	B08DY1	2	2.36E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	4.72E+04	
c112	Tellurium	3/1/92	B08DY1	2	2.34E+01	ug/g	S	PRIMARY RESULT	TCD	Te	4.68E+04	
c109	Tellurium	9/1/92	B08T17	1.2	3.90E+01	ug/g	S	PRIMARY RESULT	TCD	Te	4.68E+04	
c112	Tellurium	3/1/92	B08DY1	2	2.32E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	4.64E+04	
B110	Tellurium	4/1/90	CORE 10 SEGMENT 3	1.17	3.93E+01	ug/g	I		B110 Core Data	Te	4.60E+04	
c112	Tellurium	3/1/92	B08DY1	2	2.22E+01	ug/g	S	PRIMARY RESULT	TCD	Te	4.44E+04	
c112	Tellurium	3/1/92	B08DM7	1.6	2.73E+01	ug/g	S	PRIMARY RESULT	TCD	Te	4.37E+04	
B110	Tellurium	4/1/90	CORE 9 SEGMENT 1	1.23	3.54E+01	ug/g	I		B110 Core Data	Te	4.36E+04	
B110	Tellurium	4/1/90	Core Composite 3	1.36	3.18E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	4.32E+04	
c109	Tellurium	9/1/92	B08T17	1.2	3.50E+01	ug/g	S	PRIMARY RESULT	TCD	Te	4.20E+04	
B110	Tellurium	4/1/90	Core Composite 4	1.36	3.07E+01	ug/g	I	PRIMARY	B110 Core Data	Te	4.18E+04	
B110	Tellurium	4/1/90	Core Composite 3	1.36	2.93E+01	ug/g	I	PRIMARY	B110 Core Data	Te	3.99E+04	
B110	Tellurium	4/1/90	Core Composite 9	1.32	2.74E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	3.61E+04	
B110	Tellurium	4/1/90	Core Composite 10	1.34	2.69E+01	ug/g	I	PRIMARY	B110 Core Data	Te	3.60E+04	
B110	Tellurium	4/1/90	CORE 9 SEGMENT 5	1.24	2.84E+01	ug/g	I		B110 Core Data	Te	3.52E+04	
c112	Tellurium	3/1/92	B08DM7	1.6	2.15E+01	ug/g	S	PRIMARY RESULT	TCD	Te	3.44E+04	
B110	Tellurium	4/1/90	CORE 9 SEGMENT 1	1.23	2.78E+01	ug/g	I		B110 Core Data	Te	3.42E+04	
B110	Tellurium	4/1/90	CORE 9 SEGMENT 5	1.24	2.60E+01	ug/g	I		B110 Core Data	Te	3.22E+04	
c112	Tellurium	3/1/92	B08DM7	1.6	1.47E+01	ug/g	S	DUPLICATE RESULT	TCD	Te	2.35E+04	
B110	Tellurium	4/1/90	Core Composite 3	1.36	1.47E+01	ug/g	I	PRIMARY	B110 Core Data	Te	1.99E+04	
B110	Tellurium	4/1/90	Core Composite 2	1.33	1.17E+01	ug/g	I	DUPLICATE	B110 Core Data	Te	1.56E+04	
B110	Tellurium	4/1/90	Core Composite 2	1.33	9.39E+00	ug/g	I	PRIMARY	B110 Core Data	Te	1.25E+04	
B110	Tellurium	4/1/90	Core Composite 4	1.36	8.77E+00	ug/g	I	DUPLICATE	B110 Core Data	Te	1.19E+04	
B110	Tellurium	4/1/90	Core Composite 4	1.36	6.58E+00	ug/g	I	PRIMARY	B110 Core Data	Te	8.95E+03	
B110	Tellurium	4/1/90	Core Composite 9	1.32	4.98E+00	ug/g	I	PRIMARY	B110 Core Data	Te	6.57E+03	
B110	Tellurium	4/1/90	Core Composite 9	1.32	4.98E+00	ug/g	I	DUPLICATE	B110 Core Data	Te	6.57E+03	
B110	Tellurium	4/1/90	Core Composite 10	1.34	4.89E+00	ug/g	I	PRIMARY	B110 Core Data	Te	6.55E+03	
B110	Tellurium	4/1/90	Core Composite 18	1.37	3.59E+00	ug/g	I	DUPLICATE	B110 Core Data	Te	4.92E+03	
C102	Te	2/1/91	2		3.00E+00	mg/kg	S	water leach	RAW	Te	4.80E+03	
B110	Tellurium	4/1/90	Core Composite 18	1.37	1.16E+00	ug/g	I	PRIMARY	B110 Core Data	Te	1.59E+03	
C102	Te	2/1/91	1		1.80E-01	mg/kg	S	water leach	RAW	Te	2.88E+02	
C102	Te	2/1/91	2		1.50E-01	ug/mL	S	water leach	RAW	Te	1.50E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
C102	Te	2/1/91	1		9.00E-03	ug/mL	S	water leach	RAW	Te	9.00E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Liquids [Sketch ES-VAL-CC43]
 ASA Value: 3.21E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C102	TI	4/1/90	RAT-C102-1		2300	ugm/gm	U	Unknown	Braun	TI	2.53E+06	2
C105	TI	4/1/90	RAT-C105-4A		1600	ugm/gm	U	Unknown	Braun	TI	1.76E+06	2
C106	TI	4/1/90	RAT-C106-4A		1200	ugm/gm	U	Unknown	Braun	TI	1.32E+06	2
Preliminary ASA Value: 2.50E+05 ug/L												6
ASA Value: 3.21E+03 ug/L												
t107	Thallium	3/1/93	B08V58	1.2	3.21E+00	ug/mL	L	DUPLICATE RESULT	TCD	TI	3.21E+03	*
t107	Thallium	3/1/93	B08V16	1.02	2.50E+00	ug/mL	L	DUPLICATE RESULT	TCD	TI	2.50E+03	
t107	Thallium	3/1/93	B08V16	1.02	2.50E+00	ug/mL	L	DUPLICATE RESULT	TCD	TI	2.50E+03	
t107	Thallium	3/1/93	B08V16	1.02	2.50E+00	ug/mL	L	PRIMARY RESULT	TCD	TI	2.50E+03	
t107	Thallium	3/1/93	B08V16	1.02	2.50E+00	ug/mL	L	PRIMARY RESULT	TCD	TI	2.50E+03	
t107	Thallium	3/1/93	B08V58	1.2	2.50E+00	ug/mL	L	PRIMARY RESULT	TCD	TI	2.50E+03	
Minimum Plot Limit: 1.00E+02 ug/L												
t107	Thallium	3/1/93	B08VB5	1.1	6.25E+00	UG/L	L	DUPLICATE RESULT	TCD	TI	6.25E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
U110	Thallium	12/1/89	Core Composite 7	1.675	1.95E+04	ug/g	I	DUPLICATE	U110 Core Dat	TI	3.26E+07	20
U110	Thallium	12/1/89	Core Composite 7	1.675	1.76E+04	ug/g	I	PRIMARY	U110 Core Dat	TI	2.95E+07	20
U110	TI	11/15/89	89-046/7/8/9		17628	ugm/gm	G	Sludge/Composite	Braun	TI	2.82E+07	20
U110	Thallium	12/1/89	Core 7 Segment 1	1.78	1.27E+04	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.26E+07	20
B110	Thallium	4/1/90	Core Composite 18	1.37	1.16E+04	ug/g	I	PRIMARY	B110 Core Data	TI	1.59E+07	31
B110	Thallium	4/1/90	Core Composite 18	1.37	1.13E+04	ug/g	I	DUPLICATE	B110 Core Data	TI	1.55E+07	31
B110	Thallium	4/1/90	Core Composite 3	1.36	1.02E+04	ug/g	I	PRIMARY	B110 Core Data	TI	1.38E+07	31
B110	Thallium	4/1/90	CORE 4 SEGMENT 3	1.3	1.03E+04	ug/g	I	DUPLICATE	B110 Core Data	TI	1.33E+07	31
B110	Thallium	4/1/90	Core Composite 10	1.34	9.84E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	1.32E+07	31
U110	Thallium	12/1/89	Core 7 Segment 1	1.78	7.36E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	1.31E+07	20
U110	Thallium	12/1/89	Core Composite 6	1.54	8.24E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	1.27E+07	20
B110	Thallium	4/1/90	Core Composite 1	1.36	9.26E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	1.26E+07	31
B110	Thallium	4/1/90	Core Composite 10	1.34	9.36E+03	ug/g	I	PRIMARY	B110 Core Data	TI	1.25E+07	31
B110	Thallium	4/1/90	Core Composite 1	1.36	9.06E+03	ug/g	I	PRIMARY	B110 Core Data	TI	1.23E+07	31
B110	Thallium	4/1/90	Core Composite 3	1.36	8.86E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	1.21E+07	31
U110	TI	11/15/89	89-046		7361	ugm/gm	G	Sludge	Braun	TI	1.18E+07	20
U110	Thallium	12/1/89	Core 15 Segment 4	1.31	7.46E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	9.78E+06	20
U110	TI	12/15/89	89-070/1/2		6074	ugm/gm	G	Sludge/Composite	Braun	TI	9.72E+06	20
U110	Thallium	12/1/89	Core 15 Segment 3	1.3	6.97E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	9.06E+06	20
B110	Thallium	4/1/90	CORE 4 SEGMENT 3	1.3	6.93E+03	ug/g	I	PRIMARY	B110 Core Data	TI	9.01E+06	31
U110	Thallium	12/1/89	Core Composite 5	1.04	8.36E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	8.69E+06	20
U110	Thallium	12/1/89	Core Composite 12	1.42	6.07E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	8.63E+06	20
U110	TI	11/29/89	89-072		5300	ugm/gm	G	Sludge	Braun	TI	8.48E+06	20
U110	Thallium	12/1/89	Core Composite 7	1.675	4.97E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	8.33E+06	20
B110	Thallium	4/1/90	Core Composite 2	1.33	6.19E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	8.23E+06	31
U110	Thallium	12/1/89	Core 12 Segment 4	1.48	5.30E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	7.84E+06	20
U110	Thallium	12/1/89	Core 12 Segment 2	1.77	4.34E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	7.68E+06	20
U110	Thallium	12/1/89	Core 12 Segment 2	1.77	4.31E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	7.63E+06	20
B110	Thallium	4/1/90	Core Composite 9	1.32	5.77E+03	ug/g	I	PRIMARY	B110 Core Data	TI	7.61E+06	31
U110	TI	12/4/89	89-083		4434	ugm/gm	G	Sludge	Braun	TI	7.09E+06	20
U110	TI	11/15/89	89-047		4420	ugm/gm	G	Sludge	Braun	TI	7.07E+06	20
U110	TI	11/29/89	89-070		4339	ugm/gm	G	Sludge	Braun	TI	6.94E+06	20
B110	Thallium	4/1/90	Core Composite 2	1.33	5.05E+03	ug/g	I	PRIMARY	B110 Core Data	TI	6.72E+06	31
U110	Thallium	12/1/89	Core 7 Segment 2	1.46	4.42E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	6.45E+06	20
U110	TI	11/30/89	89-075		3984	ugm/gm	G	Sludge	Braun	TI	6.37E+06	20
U110	Thallium	12/1/89	Core 15 Segment 3	1.3	4.43E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	5.76E+06	20
U110	TI	12/4/89	89-082/3/4		3173	ugm/gm	G	Sludge/Composite	Braun	TI	5.08E+06	20
c112	Thallium	3/1/92	BOBDN8	1.6	3.15E+03	ug/g	S	DUPLICATE_RESULT	TCD	TI	5.04E+06	31

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
Preliminary ASA Value: 5.04E+06 ug/L												31
B110	Thallium	4/1/90	Core Composite 9	1.32	3.75E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	4.95E+06	31
B110	Thallium	4/1/90	Core Composite 4	1.36	3.52E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	4.79E+06	31
B110	Thallium	4/1/90	Core Composite 1	1.36	3.46E+03	ug/g	I	PRIMARY	B110 Core Data	TI	4.71E+06	31
c112	Thallium	3/1/92	B08DN8	1.6	2.91E+03	ug/g	S	PRIMARY RESULT	TCD	TI	4.65E+06	25
U110	Thallium	12/1/89	Core 13 Segment 3	1.14	3.98E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	4.54E+06	20
B110	Thallium	4/1/90	Core Composite 4	1.36	3.06E+03	ug/g	I	PRIMARY	B110 Core Data	TI	4.16E+06	31
U110	Thallium	12/1/89	Core Composite 15	1.29	3.17E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	4.09E+06	20
U110	Thallium	12/1/89	Core 13 Segment 3	1.14	3.56E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	4.06E+06	20
C102	TI	2/1/91			2.30E+03	mg/kg	S	KOH Fusion	RAW	TI	3.68E+06	2
B110	Thallium	4/1/90	Core Composite 1	1.36	2.34E+03	ug/g	I	PRIMARY	B110 Core Data	TI	3.18E+06	31
B110	Thallium	4/1/90	Core Composite 1	1.36	2.27E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	3.09E+06	31
C105	TI	4/1/90			2.80E+00	g/L	G	Sludge	Wastren	TI	2.80E+06	2
U110	TI	11/10/89	89-043		1730	ugm/gm	G	Sludge	Braun	TI	2.77E+06	20
U110	Thallium	12/1/89	Core 6 Segment 2	1.59	1.73E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	2.76E+06	20
C105	TI	2/1/91			1.60E+03	mg/kg	S	KOH Fusion	RAW	TI	2.56E+06	2
C106	TI	4/1/90			2.10E+00	g/L	G	Sludge	Wastren	TI	2.10E+06	2
U110	Thallium	12/1/89	Core Composite 15	1.29	1.55E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	2.00E+06	20
c112	Thallium	3/1/92	B08DY1	2	9.99E+02	ug/g	S	PRIMARY RESULT	TCD	TI	2.00E+06	31
C106	TI	2/1/91			1.20E+03	mg/kg	S	KOH Fusion	RAW	TI	1.92E+06	2
C102	TI	2/1/91			1.20E+03	mg/kg	S	Na2O2 Fusion	RAW	TI	1.92E+06	2
U110	Thallium	12/1/89	Core 15 Segment 2	1.27	1.46E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.86E+06	20
U110	Thallium	12/1/89	Core Composite 12	1.42	1.26E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	1.79E+06	20
U110	Thallium	12/1/89	Core Composite 7	1.675	1.04E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.75E+06	20
U110	TI	12/4/89	89-084		1074	ugm/gm	G	Sludge	Braun	TI	1.72E+06	31
c112	Thallium	3/1/92	B08DY1	2	8.59E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.72E+06	31
c112	Thallium	3/1/92	B08DY1	2	8.46E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.69E+06	31
U110	Thallium	12/1/89	Core 12 Segment 4	1.48	1.09E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.62E+06	20
C102	TI	2/1/91			1.00E+03	mg/kg	S	KOH Fusion	RAW	TI	1.60E+06	2
U110	Thallium	12/1/89	Core Composite 14	1.48	1.02E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	1.50E+06	20
B110	Thallium	4/1/90	Core Composite 1	1.36	1.10E+03	ug/g	I	DUPLICATE	B110 Core Data	TI	1.50E+06	31
U110	Thallium	12/1/89	Core Composite 12	1.42	1.01E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.43E+06	20
B110	Thallium	4/1/90	Core Composite 3	1.36	1.05E+03	ug/g	I	PRIMARY	B110 Core Data	TI	1.42E+06	31
U110	Thallium	12/1/89	Core 15 Segment 4	1.31	1.07E+03	ug/g	I	PRIMARY	U110 Core Dat	TI	1.41E+06	20
U110	Thallium	12/1/89	Core Composite 5	1.04	1.35E+03	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.41E+06	20
c112	Thallium	3/1/92	B08DY1	2	6.90E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.38E+06	31
U110	TI	12/3/89	89-077/8/9/0		824	ugm/gm	G	Sludge/Composite	Braun	TI	1.32E+06	20
U110	Thallium	12/1/89	Core Composite 6	1.54	8.50E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.31E+06	20

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	TI	11/15/89	89-048		783	ugm/gm	G	Sludge	Braun	TI	1.25E+06	20
U110	Thallium	12/1/89	Core Composite 14	1.48	8.24E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.22E+06	20
U110	Thallium	12/1/89	Core 7 Segment 3	1.53	7.83E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.20E+06	20
ASA Value: 1.15E+06 ug/L												
t107	Thallium	3/1/93	B08VD8	1.42	8.07E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.15E+06	*
t107	Thallium	3/1/93	B08VD8	1.42	8.06E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.14E+06	
c112	Thallium	3/1/92	B08DY1	2	5.69E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.14E+06	
SX103	TI	10/10/77			1.10E+00	g/L	G	Sludge	Wastren	TI	1.10E+06	
U110	Thallium	12/1/89	Core 14 Segment 2	1.39	7.90E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.10E+06	
c112	Thallium	3/1/92	B08DY1	2	5.32E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.06E+06	
U110	Thallium	12/1/89	Core Composite 13	1.3	8.16E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.06E+06	
U110	Thallium	12/1/89	Core Composite 6	1.54	6.84E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.05E+06	
U110	Thallium	12/1/89	Core Composite 13	1.3	8.01E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.04E+06	
U110	Thallium	12/1/89	Core Composite 8		6.49E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.04E+06	
U110	Thallium	12/1/89	Core 13 Segment 4	1.46	7.09E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.04E+06	
c112	Thallium	3/1/92	B08DY1	2	4.96E+02	ug/g	S	PRIMARY RESULT	TCD	TI	9.93E+05	
c112	Thallium	3/1/92	B08DY1	2	4.95E+02	ug/g	S	PRIMARY RESULT	TCD	TI	9.91E+05	
t107	Thallium	3/1/93	B08VB9	1.19	8.10E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	9.64E+05	
t107	Thallium	3/1/93	B08VB9	1.19	8.09E+02	ug/g	S	PRIMARY RESULT	TCD	TI	9.63E+05	
t107	Thallium	3/1/93	B08VB9	1.19	8.09E+02	ug/g	S	PRIMARY RESULT	TCD	TI	9.63E+05	
U110	Thallium	12/1/89	Core Composite 7	1.675	5.72E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	9.57E+05	
U110	Thallium	12/1/89	Core Composite 6	1.54	5.78E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	8.90E+05	
U110	Thallium	12/1/89	Core Composite 15	1.29	6.85E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	8.84E+05	
U110	TI	12/3/89	89-078		534	ugm/gm	G	Sludge	Braun	TI	8.54E+05	
U110	Thallium	12/1/89	Core Composite 12	1.42	5.87E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	8.34E+05	
U110	Thallium	12/1/89	Core Composite 13	1.3	6.38E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	8.29E+05	
B110	Thallium	4/1/90	Core Composite 3	1.36	6.04E+02	ug/g	I	PRIMARY	B110 Core Data	TI	8.21E+05	
U110	Thallium	12/1/89	Core Composite 8		5.07E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	8.11E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	5.84E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	7.53E+05	
U110	Thallium	12/1/89	Core 14 Segment 2	1.39	5.34E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	7.42E+05	
U110	Thallium	12/1/89	Core Composite 6	1.54	4.81E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	7.41E+05	
B110	Thallium	4/1/90	Core Composite 3	1.36	5.33E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	7.25E+05	
U110	Thallium	12/1/89	Core Composite 14	1.48	4.64E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	6.87E+05	
U110	Thallium	12/1/89	Core Composite 5	1.04	5.76E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	5.99E+05	
U110	Thallium	12/1/89	Core Composite 5	1.04	5.41E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	5.63E+05	
B110	Thallium	4/1/90	Core Composite 3	1.36	4.06E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	5.52E+05	
U110	Thallium	12/1/89	Core Composite 13	1.3	4.18E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	5.44E+05	
U110	Thallium	12/1/89	Core Composite 15	1.29	4.11E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	5.30E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Thallium	3/1/92	B08DN8	1.6	3.08E+02	ug/g	S	PRIMARY RESULT	TCD	TI	4.93E+05	
t107	Thallium	3/1/93	B08V43	1.15	4.03E+02	ug/g	S	PRIMARY RESULT	TCD	TI	4.63E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	3.27E+02	ug/g	S	PRIMARY RESULT	TCD	TI	4.22E+05	
t107	Thallium	3/1/93	B08V43	1.15	3.60E+02	ug/g	S	PRIMARY RESULT	TCD	TI	4.14E+05	
U110	TI	12/3/89	89-079		248	ugm/gm	G	Sludge	Braun	TI	3.97E+05	
t107	Thallium	3/1/93	B08V43	1.15	3.37E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	3.88E+05	
U110	Thallium	12/1/89	Core Composite 13	1.3	2.98E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	3.87E+05	
B110	Thallium	4/1/90	Core Composite 4	1.36	2.61E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	3.55E+05	
U110	Thallium	12/1/89	Core 14 Segment 3	1.4	2.48E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	3.47E+05	
B110	Thallium	4/1/90	Core Composite 9	1.32	2.51E+02	ug/g	I	PRIMARY	B110 Core Data	TI	3.32E+05	
B110	Thallium	4/1/90	Core Composite 18	1.37	2.38E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	3.27E+05	
U110	Thallium	12/1/89	Core 15 Segment 2	1.27	2.57E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	3.26E+05	
U110	Thallium	12/1/89	Core 6 Segment 3	1.22	2.60E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	3.17E+05	
B110	Thallium	4/1/90	Core Composite 18	1.37	2.30E+02	ug/g	I	PRIMARY	B110 Core Data	TI	3.15E+05	
B110	Thallium	4/1/90	Core Composite 10	1.34	2.15E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	2.88E+05	
c112	Thallium	3/1/92	B08DN8	1.6	1.78E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	2.84E+05	
t107	Thallium	3/1/93	B08V43	1.15	2.32E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	2.67E+05	
U110	Thallium	12/1/89	Core 7 Segment 4	1.93	1.33E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.57E+05	
B110	Thallium	4/1/90	Core Composite 9	1.32	1.94E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	2.56E+05	
t107	Thallium	3/1/93	B08V43	1.15	2.19E+02	ug/g	S	PRIMARY RESULT	TCD	TI	2.52E+05	
U110	Thallium	12/1/89	Core 6 Segment 4	1.8	1.36E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.45E+05	
U110	Thallium	12/1/89	Core Composite 7	1.675	1.45E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	2.43E+05	
t107	Thallium	3/1/93	B08V43	1.15	2.05E+02	ug/g	S	PRIMARY RESULT	TCD	TI	2.36E+05	
t107	Thallium	3/1/93	B08V43	1.15	2.01E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	2.31E+05	
U110	Thallium	12/1/89	Core 6 Segment 2	1.59	1.43E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.27E+05	
U110	Thallium	12/1/89	Core 7 Segment 3	1.53	1.48E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.26E+05	
B110	Thallium	4/1/90	Core Composite 4	1.36	1.62E+02	ug/g	I	PRIMARY	B110 Core Data	TI	2.21E+05	
U110	Thallium	12/1/89	Core Composite 15	1.29	1.70E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.19E+05	
U110	Thallium	12/1/89	Core 14 Segment 1	1.5	1.46E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	2.19E+05	
U110	Thallium	12/1/89	Core 14 Segment 1	1.5	1.45E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.18E+05	
t107	Thallium	3/1/93	B08VR2	1.735	1.24E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	2.15E+05	
t107	Thallium	3/1/93	B08VR2	1.735	1.24E+02	ug/g	S	PRIMARY RESULT	TCD	TI	2.15E+05	
U110	Thallium	12/1/89	Core Composite 8		1.34E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	2.14E+05	
U110	Thallium	12/1/89	Core 7 Segment 4	1.93	1.11E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	2.14E+05	
U110	Thallium	12/1/89	Core Composite 6	1.54	1.37E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	2.11E+05	
t105	Thallium	5/28/93	B08WT4	2.01	1.04E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	2.09E+05	
U110	Thallium	12/1/89	Core 7 Segment 2	1.46	1.41E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	2.06E+05	
B110	Thallium	4/1/90	Core Composite 2	1.33	1.50E+02	ug/g	I	PRIMARY	B110 Core Data	TI	2.00E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Thallium	4/1/90	Core Composite 2	1.33	1.50E+02	ug/g	I	DUPLICATE	B110 Core Data	TI	2.00E+05	
B110	Thallium	4/1/90	Core Composite 10	1.34	1.47E+02	ug/g	I	PRIMARY	B110 Core Data	TI	1.97E+05	
t105	Thallium	5/28/93	B08WT4	2.01	9.78E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.97E+05	
t107	Thallium	3/1/93	B08V39	1.57	1.25E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.96E+05	
t107	Thallium	3/1/93	B08V39	1.57	1.25E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.96E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	1.52E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.96E+05	
U110	Thallium	12/1/89	Core Composite 14	1.48	1.31E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.94E+05	
t107	Thallium	3/1/93	B08TZ3	0.95	2.03E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.93E+05	
t107	Thallium	3/1/93	B08V43	1.15	1.67E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.92E+05	
U110	Thallium	12/1/89	Core 6 Segment 4	1.8	1.06E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.91E+05	
t105	Thallium	5/28/93	B08WT4	2.01	9.19E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.85E+05	
U110	Thallium	12/1/89	Core Composite 8		1.15E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.84E+05	
U110	Thallium	12/1/89	Core 13 Segment 4	1.46	1.25E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.83E+05	
U110	Thallium	12/1/89	Core 14 Segment 4	1.62	1.11E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.80E+05	
U110	Thallium	12/1/89	Core Composite 13	1.3	1.37E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.78E+05	
t107	Thallium	3/1/93	B08VF0	1.38	1.24E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.71E+05	
U110	Thallium	12/1/89	Core 6 Segment 3	1.22	1.40E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.71E+05	
t107	Thallium	3/1/93	B08VF0	1.38	1.23E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.70E+05	
U110	Thallium	12/1/89	Core Composite 15	1.29	1.30E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.68E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.32E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	1.67E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.31E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.67E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.17E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.64E+05	
t107	Thallium	3/1/93	B08VD9	1.305	1.25E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.63E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.08E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	1.62E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.04E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	1.62E+05	
t105	Thallium	5/28/93	B08WT4	2.01	8.04E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	1.62E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	1.25E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.61E+05	
t105	Thallium	5/28/93	B08WT4	2.01	7.97E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.60E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	1.24E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.60E+05	
U110	Thallium	12/1/89	Core Composite 5	1.04	1.49E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.55E+05	
t107	Thallium	3/1/93	B08VB9	1.19	1.25E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.49E+05	
t107	Thallium	3/1/93	B08VB9	1.19	1.24E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.48E+05	
t107	Thallium	3/1/93	B08TZ2	1.29	1.13E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.46E+05	
t107	Thallium	3/1/93	B08V43	1.15	1.25E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.44E+05	
t107	Thallium	3/1/93	B08V43	1.15	1.22E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.40E+05	
t107	Thallium	3/1/93	B08V44	1.1	1.22E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.34E+05	
t107	Thallium	3/1/93	B08V43	1.15	1.16E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.33E+05	
t107	Thallium	3/1/93	B08V44	1.1	1.21E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.33E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
t107	Thallium	3/1/93	B08V44	1.1	1.20E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.32E+05	
t107	Thallium	3/1/93	B08V44	1.1	1.20E+02	ug/g	S	PRIMARY RESULT	TCD	TI	1.32E+05	
U110	Thallium	12/1/89	Core Composite 5	1.04	1.26E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.31E+05	
U110	Thallium	12/1/89	Core 12 Segment 3	1	1.31E+02	ug/g	I	DUPLICATE	U110 Core Dat	TI	1.31E+05	
U110	Thallium	12/1/89	Core 12 Segment 3	1	1.25E+02	ug/g	I	PRIMARY	U110 Core Dat	TI	1.25E+05	
B110	Thallium	4/1/90	Core Composite 10	1.34	9.05E+01	ug/g	I	DUPLICATE	B110 Core Data	TI	1.21E+05	
t107	Thallium	3/1/93	B08TZ3	0.95	1.24E+02	ug/g	S	DUPLICATE RESULT	TCD	TI	1.18E+05	
B110	Thallium	4/1/90	Core Composite 9	1.32	8.21E+01	ug/g	I	PRIMARY	B110 Core Data	TI	1.08E+05	
C102	TI	2/1/91	2		6.20E+01	mg/kg	S	water leach	RAW	TI	9.92E+04	
U110	Thallium	12/1/89	Core 14 Segment 3	1.4	6.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	TI	9.38E+04	
t107	Thallium	3/1/93	B08TZ2	1.29	6.73E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	8.68E+04	
t107	Thallium	3/1/93	B08VB9	1.19	7.20E+01	ug/g	S	PRIMARY RESULT	TCD	TI	8.57E+04	
C102	TI	2/1/91	1		5.10E+01	mg/kg	S	Total	RAW	TI	8.16E+04	
C102	TI	2/1/91	1		5.10E+01	mg/kg	S	water leach	RAW	TI	8.16E+04	
B110	Thallium	4/1/90	Core Composite 4	1.36	5.92E+01	ug/g	I	DUPLICATE	B110 Core Data	TI	8.05E+04	
B110	Thallium	4/1/90	Core Composite 18	1.37	5.72E+01	ug/g	I	DUPLICATE	B110 Core Data	TI	7.83E+04	
t105	Thallium	5/28/93	B08WT2	0.89	8.10E+01	mg/kg	S	DUPLICATE RESULT	TCD	TI	7.21E+04	
t105	Thallium	5/28/93	B08WT2	0.89	8.07E+01	mg/kg	S	PRIMARY RESULT	TCD	TI	7.18E+04	
B110	Thallium	4/1/90	Core Composite 2	1.33	4.93E+01	ug/g	I	DUPLICATE	B110 Core Data	TI	6.55E+04	
C102	TI	2/1/91	2		3.80E+01	mg/kg	S	Total	RAW	TI	6.08E+04	
C102	TI	2/1/91	2		3.80E+01	mg/kg	S	water leach	RAW	TI	6.08E+04	
t107	Thallium	3/1/93	B08TZ2	1.29	4.48E+01	ug/g	S	PRIMARY RESULT	TCD	TI	5.78E+04	
B110	Thallium	4/1/90	Core Composite 2	1.33	3.99E+01	ug/g	I	PRIMARY	B110 Core Data	TI	5.31E+04	
t107	Thallium	3/1/93	B08TZ2	1.29	3.93E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	5.07E+04	
B110	Thallium	4/1/90	Core Composite 4	1.36	3.51E+01	ug/g	I	PRIMARY	B110 Core Data	TI	4.77E+04	
B110	Thallium	4/1/90	Core Composite 18	1.37	3.33E+01	ug/g	I	PRIMARY	B110 Core Data	TI	4.56E+04	
t107	Thallium	3/1/93	B08VB9	1.19	3.54E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	4.21E+04	
t107	Thallium	3/1/93	B08VF0	1.38	2.79E+01	ug/g	S	PRIMARY RESULT	TCD	TI	3.85E+04	
t107	Thallium	3/1/93	B08VF0	1.38	2.69E+01	ug/g	S	PRIMARY RESULT	TCD	TI	3.71E+04	
t107	Thallium	3/1/93	B08VF0	1.38	2.63E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	3.63E+04	
t107	Thallium	3/1/93	B08TZ2	1.29	2.50E+01	ug/g	S	PRIMARY RESULT	TCD	TI	3.23E+04	
t107	Thallium	3/1/93	B08VF0	1.38	2.15E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	2.97E+04	
B110	Thallium	4/1/90	Core Composite 9	1.32	1.99E+01	ug/g	I	DUPLICATE	B110 Core Data	TI	2.63E+04	
B110	Thallium	4/1/90	Core Composite 10	1.34	1.71E+01	ug/g	I	PRIMARY	B110 Core Data	TI	2.29E+04	
t107	Thallium	3/1/93	B08VF0	1.38	1.63E+01	ug/g	S	PRIMARY RESULT	TCD	TI	2.25E+04	
t107	Thallium	3/1/93	B08VF0	1.38	1.62E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	2.24E+04	
t107	Thallium	3/1/93	B08VF0	1.38	1.61E+01	ug/g	S	PRIMARY RESULT	TCD	TI	2.22E+04	
t105	Thallium	5/28/93	B08WT2	0.89	1.69E+01	ug/g	S	PRIMARY RESULT	TCD	TI	1.50E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Single-Shell Tank Solids [Sketch ES-VAL-CC44]
 ASA Value: 1.15E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Thallium	5/28/93	B08WT2	0.89	1.68E+01	ug/g	S	DUPLICATE RESULT	TCD	TI	1.50E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
C102	TI	2/1/91	1		6.00E+00	mg/kg	S	water leach	RAW	TI	9.60E+03	
C102	TI	2/1/91	2		3.10E+00	ug/mL	S	water leach	RAW	TI	3.10E+03	
C102	TI	2/1/91	1		3.10E-01	ug/mL	S	water leach	RAW	TI	3.10E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Liquids [Sketch ES-VAL-CC45]

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ASA Value: 1.82E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C102	U	4/1/90	RAT-C102-1		23300	ugm/gm	U	Unknown	Braun	U	2.56E+07	2
A102	U	3/13/80	7956	1.065	0.0554	moles/l	P	Supernate	Braun	U	1.32E+07	6
C105	U	4/1/90	RAT-C105-4A		10500	ugm/gm	U	Unknown	Braun	U	1.16E+07	2
C105	U	4/1/90	RAT-C105-4B		8200	ugm/gm	U	Unknown	Braun	U	9.02E+06	2
ASA Value: 1.82E+06 ug/L												
BX111	U	3/16/90	R-6041	1.44	0.00765	moles/l	P	Supernate	Braun	U	1.82E+06	*
BX111	U	3/16/90			1.82E+00	g/L	P	Supernate	Wastren	U	1.82E+06	*
c112	Uranium	3/1/92	B08DZ5	1.4	1.06E+03	ug/g	L	DUPLICATE RESULT	TCD	U	1.48E+06	
Preliminary ASA Value: 1.44E+06 ug/L												
c112	Uranium	3/1/92	B08DZ5	1.4	1.01E+03	ug/g	L	PRIMARY RESULT	TCD	U	1.41E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	9.81E+02	ug/g	L	DUPLICATE RESULT	TCD	U	1.37E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	9.78E+02	ug/g	L	PRIMARY RESULT	TCD	U	1.37E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	9.32E+02	ug/g	L	PRIMARY RESULT	TCD	U	1.30E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	9.24E+02	ug/g	L	DUPLICATE RESULT	TCD	U	1.29E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	8.96E+02	ug/g	L	DUPLICATE RESULT	TCD	U	1.25E+06	
c112	Uranium	3/1/92	B08DZ5	1.4	8.85E+02	ug/g	L	PRIMARY RESULT	TCD	U	1.24E+06	
C106	U	4/1/90	RAT-C106-4B		944	ugm/gm	U	Unknown	Braun	U	1.04E+06	
C105	Uranium	5/19/87	C1XDXXXX		9.66E-01	g/L	L	Drainable Liquor	RAW	U	9.66E+05	
C105	Uranium	5/19/87	C1XDXXXX		9.66E-01	g/L	L	Drainable Liquor	RAW	U	9.66E+05	
C105	U	4/11/86	C1XD00XX	1.23	0.966	gm/l	L	Liquor	Braun	U	9.66E+05	
C106	Uranium	5/19/87	G1XDXXXX		9.58E-01	g/L	L	Drainable Liquor	RAW	U	9.58E+05	
C106	Uranium	5/19/87	G1XDXXXX		9.58E-01	g/L	L	Drainable Liquor	RAW	U	9.58E+05	
C106	U	5/19/86	G1XD00XX	1.22	0.958	gm/l	L	Liquor	Braun	U	9.58E+05	
BX107	U	3/16/90			8.58E-01	g/L	P	Supernate	Wastren	U	8.58E+05	
BX107	U	3/16/90	R6038	1.22	8.58E-01	g/l	P	Supernatant	RAW	U	8.58E+05	
BX107	U	3/16/90	R-6038	1.22	0.858	gm/l	P	Supernate	Braun	U	8.58E+05	
BX112	U	3/16/90	R6042	1.2	7.69E-01	g/L	P	Supernatant	RAW	U	7.69E+05	
BX112	U	3/16/90	R-6042	1.2	0.769	gm/l	P	Supernate	Braun	U	7.69E+05	
t107	Uranium	3/1/93	B08V58	1.2	6.10E+02	ug/mL	L	PRIMARY RESULT	TCD	U	6.10E+05	
t107	Uranium	3/1/93	B08V58	1.2	5.66E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	5.66E+05	
c110	Uranium	4/23/92	B08VM5	1	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VM5	1	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Liquids [Sketch ES-VAL-CC45]
 ASA Value: 1.82E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c110	Uranium	4/23/92	B08VH6	1.18	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VH6	1.18	3.34E+02	ug/mL	L	PRIMARY RESULT	TCD	U	3.34E+05	
c110	Uranium	4/23/92	B08VM5	1	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VM5	1	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VP9	1.1	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VH6	1.18	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
c110	Uranium	4/23/92	B08VH6	1.18	3.09E+02	ug/mL	L	DUPLICATE RESULT	TCD	U	3.09E+05	
BX109	U	3/16/90			2.55E-01	g/L	P	Supernate	Wastren	U	2.55E+05	
BX109	U	3/16/90	R6039	1.34	2.55E-01	g/L	P	Supernatant	RAW	U	2.55E+05	
BX109	U	3/16/90	R-6039	1.34	0.255	gm/l	P	Supernate	Braun	U	2.55E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
t107	Uranium	3/1/93	B08V16	1.02	9.61E+01	ug/mL	L	DUPLICATE RESULT	TCD	U	9.61E+04	
t107	Uranium	3/1/93	B08V16	1.02	9.61E+01	ug/mL	L	DUPLICATE RESULT	TCD	U	9.61E+04	
t107	Uranium	3/1/93	B08V16	1.02	9.44E+01	ug/mL	L	PRIMARY RESULT	TCD	U	9.44E+04	
t107	Uranium	3/1/93	B08V16	1.02	9.44E+01	ug/mL	L	PRIMARY RESULT	TCD	U	9.44E+04	
C201	U	12/4/78			7.70E-02	g/L	P	Supernate	Wastren	U	7.70E+04	
A102	U	3/13/80	7957	1.064	0.0674	gm/l	P	Supernate	Braun	U	6.74E+04	
T107	U	3/5/85	R-3872		0.057	gm/l	P	Supernate	Braun	U	5.70E+04	
t107	Uranium	3/1/93	B08VB5	1.1	4.15E+01	ug/mL	L	DUPLICATE RESULT	TCD	U	4.15E+04	
TY104	Uranium	9/30/85	232DXXXX		4.00E-02	g/L	L	Drainable Liquor	RAW	U	4.00E+04	
TY104	Uranium	9/30/85	241DXXXX		4.00E-02	g/L	L	Drainable Liquor	RAW	U	4.00E+04	
TY104	U	8/6/85	241D0000	1.18	0.04	gm/l	L	Liquor	Braun	U	4.00E+04	
t107	Uranium	3/1/93	B08VB5	1.1	3.97E+01	ug/mL	L	PRIMARY RESULT	TCD	U	3.97E+04	
TY103	U	8/21/85			3.90E-02	g/L	L	Drainable Liquid	Wastren	U	3.90E+04	
TY103	Uranium	9/30/85	33XDXXXX		3.90E-02	g/L	L	Drainable Liquor	RAW	U	3.90E+04	
TY103	Uranium	9/30/85	33XDXXXX		3.90E-02	g/L	L	Drainable Liquor	RAW	U	3.90E+04	
TY103	U	8/21/85	33XD0000	1.24	0.039	gm/l	L	Liquor	Braun	U	3.90E+04	
TY104	U	8/12/85			3.70E-02	g/L	P	Supernate	Wastren	U	3.70E+04	
TY104	Uranium	9/30/85	232DXXXX		3.70E-02	g/L	L	Drainable Liquor	RAW	U	3.70E+04	
TY104	Uranium	9/30/85	232DXXXX		3.70E-02	g/L	L	Drainable Liquor	RAW	U	3.70E+04	
TY104	U	8/12/85	232D0000	1.21	0.037	gm/l	L	Liquor	Braun	U	3.70E+04	
C104	Uranium	5/19/87	D1XDXXXX		2.54E-02	g/L	L	Drainable Liquor	RAW	U	2.54E+04	
C104	Uranium	5/19/87	D1XDXXXX		2.54E-02	g/L	L	Drainable Liquor	RAW	U	2.54E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Liquids [Sketch ES-VAL-CC45]
 ASA Value: 1.82E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C104	U	4/15/86	D1XDOOXX	1.18	0.0254	gm/l	L	Liquor	Braun	U	2.54E+04	
TY104	Uranium	9/30/85	211DXXXX		2.20E-02	g/L	L	Drainable Liquor	RAW	U	2.20E+04	
TY104	Uranium	9/30/85	211DXXXX		2.20E-02	g/L	L	Drainable Liquor	RAW	U	2.20E+04	
TY104	U	8/6/85	211DOOOO	1.16	0.022	gm/l	L	Liquor	Braun	U	2.20E+04	
t105	Uranium	5/28/93	B08WT3	1.49	8.48E+00	ug/mL	L	PRIMARY RESULT	TCD	U	8.48E+03	
BX111	U	3/16/90	R6041	1.14	7.65E-03	g/l	P	Supernatant	RAW	U	7.65E+03	
BX106	U	3/16/90			7.36E-03	g/L	P	Supernate	Wastren	U	7.36E+03	
BX106	U	3/16/90	R6037	1.33	7.36E-03	g/L	P	Supernatant	RAW	U	7.36E+03	
BX106	U	3/16/90	R-6037	1.33	0.00736	gm/l	P	Supernate	Braun	U	7.36E+03	
t105	Uranium	5/28/93	B08WT3	1.49	7.02E+00	ug/mL	L	DUPLICATE RESULT	TCD	U	7.02E+03	
A103	U	4/3/86			6.41E-03	g/L	L	Drainable Liquid	Wastren	U	6.41E+03	
A103	Uranium	5/19/87	B1XD00XD		6.41E-03	g/L	L	Drainable Liquor	RAW	U	6.41E+03	
A103	Uranium	5/19/87	B1XD00XD		6.41E-03	g/L	L	Drainable Liquor	RAW	U	6.41E+03	
A103	U	4/3/86	B2XDOOXX	1.48	0.00641	gm/l	L	Liquor	Braun	U	6.41E+03	
TY106	U	7/31/85			6.00E-03	g/L	L	Drainable Liquid	Wastren	U	6.00E+03	
TY106	Uranium	6/20/87	111DXXXX		6.00E-03	g/L	L	Drainable Liquor	RAW	U	6.00E+03	
TY106	Uranium	6/20/87	111DXXXX		6.00E-03	g/L	L	Drainable Liquor	RAW	U	6.00E+03	
TY106	U	7/31/85	111DOOOO	1.12	0.006	gm/l	L	Liquor	Braun	U	6.00E+03	
BX105	Uranium	5/19/87	B1XDXXXX		4.60E-03	g/L	L	Drainable Liquor	RAW	U	4.60E+03	
BX105	Uranium	5/19/87	B1XDXXXX		4.60E-03	g/L	L	Drainable Liquor	RAW	U	4.60E+03	
BX105	U	3/3/86	81XDOOXX	1.29	0.0046	gm/l	L	Liquor	Braun	U	4.60E+03	
BX105	U	3/4/86			4.42E-03	g/L	P	Supernate	Wastren	U	4.42E+03	
BX105	Uranium	5/19/87	B2XDXXXX		4.42E-03	g/L	L	Drainable Liquor	RAW	U	4.42E+03	
BX105	Uranium	5/19/87	B2XDXXXX		4.42E-03	g/L	L	Drainable Liquor	RAW	U	4.42E+03	
BX105	U	3/4/86	82XDOOXX	1.29	0.00442	gm/l	L	Liquor	Braun	U	4.42E+03	
BX110	U	3/16/90			4.29E-03	g/L	P	Supernate	Wastren	U	4.29E+03	
BX110	U	3/16/90	R6040	1.37	4.29E-03	g/L	P	Supernatant	RAW	U	4.29E+03	
BX110	U	3/16/90	R-6040	1.37	0.00429	gm/l	P	Supernate	Braun	U	4.29E+03	
BX104	U	2/26/86			3.58E-03	g/L	L	Drainable Liquid	Wastren	U	3.58E+03	
BX104	U	2/26/86	72XDOOXX	1.21	0.00358	gm/l	L	Liquor	Braun	U	3.58E+03	
A106	Uranium	5/19/87	A1XDXXXX		3.44E-03	g/L	L	Drainable Liquor	RAW	U	3.44E+03	
A106	Uranium	5/19/87	A1XDXXXX		3.44E-03	g/L	L	Drainable Liquor	RAW	U	3.44E+03	
A106	U	3/11/86	A1XDOOXX	1.35	0.00344	gm/l	L	Liquor	Braun	U	3.44E+03	
BX104	U	2/14/86	71XDOOXX	1.31	0.0033	gm/l	L	Liquor	Braun	U	3.30E+03	
A103	Uranium	5/19/87	B1XD00XD		2.38E-03	g/L	L	Drainable Liquor	RAW	U	2.38E+03	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Liquids [Sketch ES-VAL-CC45]
 ASA Value: 1.82E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
A103	Uranium	5/19/87	B1XD00XD		2.38E-03	g/L	L	Drainable Liquor	RAW	U	2.38E+03	
A102	U	3/6/86	91XD00XX	1.52	0.00238	gm/l	L	Liquor	Braun	U	2.38E+03	
A103	U	3/26/86	B1XD00XX	1.476	0.00238	gm/l	L	Liquor	Braun	U	2.38E+03	
A102	Uranium	5/19/87	91XDXXXX		2.36E-03	g/L	L	Drainable Liquor	RAW	U	2.36E+03	
A102	Uranium	5/19/87	91XDXXXX		2.36E-03	g/L	L	Drainable Liquor	RAW	U	2.36E+03	
A102	Uranium	5/19/87	92XDXXXX		2.24E-03	g/L	L	Drainable Liquor	RAW	U	2.24E+03	
A102	Uranium	5/19/87	92XDXXXX		2.24E-03	g/L	L	Drainable Liquor	RAW	U	2.24E+03	
A102	U	3/8/86	92XD00XX	1.51	0.00224	gm/l	L	Liquor	Braun	U	2.24E+03	
SX102	U	8/19/77	8992		0.0019	gm/l	U	Unknown	Braun	U	1.90E+03	
A106	U	3/13/86			1.68E-03	g/L	L	Drainable Liquid	Wastren	U	1.68E+03	
A106	Uranium	5/19/87	A2XDXXXX		1.68E-03	g/L	L	Drainable Liquor	RAW	U	1.68E+03	
A106	Uranium	5/19/87	A2XDXXXX		1.68E-03	g/L	L	Drainable Liquor	RAW	U	1.68E+03	
A106	U	3/13/86	A2XD00XX	1.36	0.00168	gm/l	L	Liquor	Braun	U	1.68E+03	
T204	U	12/4/78			1.29E-03	g/L	L	Drainable Liquid	Wastren	U	1.29E+03	
A102	U	3/14/89			1.24E-03	g/L	P	Supernate	Wastren	U	1.24E+03	
A102	U	3/14/89	R-4656	1.57	0.00124	gm/l	P	Supernate	Braun	U	1.24E+03	
S102	U	3/28/80			3.23E-04	g/L	P	Supernate	Wastren	U	3.23E+02	
S102	U	3/28/80	T-8101	1.402	0.000323	gm/l	L	Liquor	Braun	U	3.23E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B -202	Uranium				3.35E+04	g/mol	S		TRAC	U	1.31E+09	4
BX-11	Uranium				4.88E+05	g/mol	S		TRAC	U	9.29E+08	4
C -203	Uranium				2.84E+02	g/mol	S		TRAC	U	8.92E+08	4
C -202	Uranium				2.84E+03	g/mol	S		TRAC	U	7.89E+08	4
TY-105	Uranium				6.15E+04	g/mol	S		TRAC	U	7.72E+08	4
TX-115	Uranium				2.21E+05	g/mol	S		TRAC	U	7.71E+08	4
TX-114	Uranium				4.29E+04	g/mol	S		TRAC	U	6.73E+08	4
BY-104	Uranium				6.02E+05	g/mol	S		TRAC	U	6.41E+08	4
TX-113	Uranium				1.27E+06	g/mol	S		TRAC	U	6.28E+08	4
B -103	Uranium				2.43E+04	g/mol	S		TRAC	U	6.10E+08	4
B -101	Uranium				9.09E+04	g/mol	S		TRAC	U	6.01E+08	4
BX-10	Uranium				5.34E+04	g/mol	S		TRAC	U	4.79E+08	4
TY-104	Uranium				2.73E+03	g/mol	S		TRAC	U	4.29E+08	4
ASA Value: 2.84E+08 ug/L												
c112	Uranium	3/1/92	B08DN8	1.6	1.78E+05	ug/g	S	DUPLICATE RESULT	TCD	U	2.84E+08	*
c112	Uranium	3/1/92	B08DN8	1.6	1.72E+05	ug/g	S	PRIMARY RESULT	TCD	U	2.75E+08	
BY-105	Uranium				2.28E+05	g/mol	S		TRAC	U	2.65E+08	
BY-107	Uranium				6.36E+04	g/mol	S		TRAC	U	2.50E+08	
AX-10	Uranium				1.39E+04	g/mol	S		TRAC	U	2.18E+08	
c112	Uranium	3/1/92	B08DY1	2	9.32E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.86E+08	
c112	Uranium	3/1/92	B08DN8	1.6	1.16E+05	ug/g	S	PRIMARY RESULT	TCD	U	1.85E+08	
B -102	Uranium				9.39E+03	g/mol	S		TRAC	U	1.84E+08	
BX112	U	3/16/90	B08DY1	2	9.39E+03	g/mol	S		Wastren	U	1.83E+08	
c112	Uranium	3/1/92	B08DY1	2	1.83E+02	g/L	S	PRIMARY RESULT	TCD	U	1.82E+08	
U101	U				9.10E+04	ug/g	S		HTCE Inv.	U	1.79E+08	
U104	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
C204	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
C203	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
C202	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
C201	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
BX106	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
BX104	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
BX105	U				7.53E-01	moles/L	S		HTCE Inv.	U	1.79E+08	
c112	Uranium	3/1/92	B08DY1	2	8.95E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.79E+08	
c112	Uranium	3/1/92	B08DY1	2	8.95E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.79E+08	
c112	Uranium	3/1/92	B08DY1	2	8.82E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.76E+08	
c112	Uranium	3/1/92	B08DN8	1.6	1.08E+05	ug/g	S	DUPLICATE RESULT	TCD	U	1.74E+08	
c112	Uranium	3/1/92	B08DY1	2	8.65E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.73E+08	
c112	Uranium	3/1/92			3.42E+05	g/mol	S		TRAC	U	1.73E+08	
U -110	Uranium											

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Uranium	3/1/92	B08DY1	2	8.63E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.73E+08	
c112	Uranium	3/1/92	B08DY1	2	8.48E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.70E+08	
c112	Uranium	3/1/92	B08DY1	2	8.44E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.69E+08	
c112	Uranium	3/1/92	B08DY1	2	8.17E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.63E+08	
c112	Uranium	3/1/92	B08DY1	2	8.07E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.61E+08	
BX102	U				6.59E-01	moles/L	S		HTCE Inv.	U	1.57E+08	
BX103	U				6.56E-01	moles/L	S		HTCE Inv.	U	1.56E+08	
c112	Uranium	3/1/92	B08DY1	2	7.80E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.56E+08	
TY105	U	2/1/80	RAT-TY105-1	1.44	0.1000894	gm/gm	G	Sludge	Braun	U	1.44E+08	
c112	Uranium	3/1/92	B08DY1	2	7.07E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.41E+08	
c112	Uranium	3/1/92	B08DY1	2	6.88E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.38E+08	
BX-10	Uranium				3.91E+04	g/mol	S		TRAC	U	1.36E+08	
A-103	Uranium				1.67E+04	g/mol	S		TRAC	U	1.31E+08	
A-106	Uranium				4.58E+04	g/mol	S		TRAC	U	1.31E+08	
BX101	U				5.29E-01	moles/L	S		HTCE Inv.	U	1.26E+08	
C-112	Uranium				1.86E+04	g/mol	S		TRAC	U	1.11E+08	
BY-111	Uranium				1.41E+04	g/mol	S		TRAC	U	1.11E+08	
C-111	Uranium				1.30E+04	g/mol	S		TRAC	U	1.09E+08	
c112	Uranium	3/1/92	B08DN8	1.6	6.19E+04	ug/g	S	DUPLICATE RESULT	TCD	U	9.90E+07	
B110	Uranium	4/1/90	CORE 2 SEGMENT 4	1.28	7.51E+04	ug/g	I	DUPLICATE	B110 Core Data	U	9.62E+07	
c112	Uranium	3/1/92	B08DN8	1.6	5.97E+04	ug/g	S	DUPLICATE RESULT	TCD	U	9.55E+07	
c112	Uranium	3/1/92	B08DN8	1.6	5.80E+04	ug/g	S	PRIMARY RESULT	TCD	U	9.27E+07	
c112	Uranium	3/1/92	B08DN8	1.6	5.75E+04	ug/g	S	DUPLICATE RESULT	TCD	U	9.19E+07	
c112	Uranium	3/1/92	B08DY1	2	4.55E+04	ug/g	S	DUPLICATE RESULT	TCD	U	9.10E+07	
c112	Uranium	3/1/92	B08DN8	1.6	5.66E+04	ug/g	S	PRIMARY RESULT	TCD	U	9.06E+07	
c112	Uranium	3/1/92	B08DN8	1.6	5.59E+04	ug/g	S	PRIMARY RESULT	TCD	U	8.94E+07	
BX-10	Uranium				9.69E+03	g/mol	S		TRAC	U	8.69E+07	
c112	Uranium	3/1/92	B08DY1	2	4.31E+04	ug/g	S	PRIMARY RESULT	TCD	U	8.62E+07	
C-107	Uranium				4.47E+04	g/mol	S		TRAC	U	7.80E+07	
C-102	Uranium				1.91E+05	g/mol	S		TRAC	U	7.06E+07	
TY-103	Uranium				2.30E+04	g/mol	S		TRAC	U	6.88E+07	
U110	Uranium	12/1/89	Core 12 Segment 2	1.77	3.85E+04	ug/g	I	PRIMARY	U110 Core Data	U	6.81E+07	
U110	Uranium	12/1/89	Core 12 Segment 2	1.77	3.79E+04	ug/g	I	DUPLICATE	U110 Core Data	U	6.70E+07	
c112	Uranium	3/1/92	B08DN8	1.6	4.14E+04	ug/g	S	PRIMARY RESULT	TCD	U	6.62E+07	
B-108	Uranium				1.05E+05	g/mol	S		TRAC	U	6.61E+07	
BX104	Uranium	2/14/86	71XC00XX	1.85	34800	ugm/gm	G	Sludge/Composite	Braun	U	6.44E+07	
TX-117	Uranium				2.59E+05	g/mol	S		TRAC	U	6.38E+07	
TY-106	Uranium				6.83E+03	g/mol	S		TRAC	U	6.31E+07	
AY-101	Uranium				1.00E+03	g/mol	S		TRAC	U	6.28E+07	
U110	U	11/29/89	89-070		38459	ugm/gm	G	Sludge	Braun	U	6.15E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Uranium	3/1/92	B08DN8	1.6	3.83E+04	ug/g	S	DUPLICATE RESULT	TCD	U	6.12E+07	
C-104	Uranium				1.16E+05	g/mol	S		TRAC	U	5.69E+07	
BY-108	Uranium				1.13E+04	g/mol	S		TRAC	U	5.46E+07	
C-109	Uranium				2.80E+03	g/mol	S		TRAC	U	4.89E+07	
C105	U	2/1/77	RAT-C105-3	1.47	0.2	moles/l	G	Sludge	Braun	U	4.76E+07	
B-107	Uranium				2.46E+04	g/mol	S		TRAC	U	4.68E+07	
U110	U	11/30/89	89-075		27585	ugm/gm	G	Sludge	Braun	U	4.41E+07	
TY104	U	8/16/85	261SO000	1.48	28600	ugm/gm	G	Sludge/Composite	Braun	U	4.23E+07	
TY104	U	8/16/85			4.23E+01	g/L	G	Sludge	Wastren	U	4.23E+07	
C-106	Uranium				3.33E+04	g/mol	S		TRAC	U	4.18E+07	
T-107	Uranium				3.89E+03	g/mol	S		TRAC	U	4.07E+07	
S-107	Uranium				1.52E+05	g/mol	S		TRAC	U	3.93E+07	
BX107	U	10/20/92	J927-AV		24100	ugm/gm	G	Sludge/Composite	Braun	U	3.86E+07	
A102	U	5/31/63	RAT-A102-5		0.024	gm/gm	G	Sludge	Braun	U	3.84E+07	
TY104	U	8/6/85	241SO000	1.77	21300	ugm/gm	G	Sludge/Composite	Braun	U	3.77E+07	
T-101	Uranium				5.98E+02	g/mol	S		TRAC	U	3.76E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.34E+04	ug/g	S	DUPLICATE RESULT	TCD	U	3.74E+07	
C102	U	2/1/91			2.33E+04	mg/kg	S	KOH Fusion	RAW	U	3.73E+07	
C-105	Uranium				1.55E+05	g/mol	S		TRAC	U	3.71E+07	
TY105	U	9/18/80	RAT-TY105-2	1.44	0.0254663	gm/gm	G	Sludge	Braun	U	3.67E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.20E+04	ug/g	S	DUPLICATE RESULT	TCD	U	3.53E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.17E+04	ug/g	S	DUPLICATE RESULT	TCD	U	3.47E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.17E+04	ug/g	S	PRIMARY RESULT	TCD	U	3.47E+07	
C102	U	2/1/91	1		2.15E+04	mg/kg	S	Total	RAW	U	3.44E+07	
C102	U	2/1/91	2		2.13E+04	mg/kg	S	Total	RAW	U	3.41E+07	
C102	U	2/1/91	1		2.13E+04	mg/kg	S	water leach	RAW	U	3.41E+07	
C102	U	2/1/91	2		2.13E+04	mg/kg	S	water leach	RAW	U	3.41E+07	
C102	U	2/1/91			2.11E+04	mg/kg	S	Na2O2 Fusion	RAW	U	3.37E+07	
AX-10	Uranium				4.74E+02	g/mol	S		TRAC	U	3.31E+07	
TY103	U	9/1/85	31XCXXXX	1.7	1.93E+04	ug/g	I	Core composite	RAW	U	3.28E+07	
TY103	U	8/21/85	31XC0000	1.7	19300	ugm/gm	G	Sludge/Composite	Braun	U	3.28E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.05E+04	ug/g	S	PRIMARY RESULT	TCD	U	3.27E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.03E+04	ug/g	S	DUPLICATE RESULT	TCD	U	3.25E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.03E+04	ug/g	S	PRIMARY RESULT	TCD	U	3.25E+07	
c112	Uranium	3/1/92	B08DM7	1.6	2.03E+04	ug/g	S	PRIMARY RESULT	TCD	U	3.24E+07	
c112	Uranium	3/1/92	B08DM7	1.6	1.97E+04	ug/g	S	DUPLICATE RESULT	TCD	U	3.16E+07	
U110	Uranium	12/1/89	Core 13 Segment 3	1.14	2.76E+04	ug/g	I	PRIMARY	U110 Core Data	U	3.14E+07	
C102	U	2/1/91			1.94E+04	mg/kg	S	KOH Fusion	RAW	U	3.10E+07	
U-101	Uranium				3.00E+04	g/mol	S		TRAC	U	3.05E+07	
c112	Uranium	3/1/92	B08DM7	1.6	1.89E+04	ug/g	S	PRIMARY RESULT	TCD	U	3.03E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C104	U	4/15/86	D1XCOOXX	1.21	24800	ugm/gm	G	Sludge/Composite	Braun	U	3.00E+07	
C104	U	4/15/86			3.00E+01	g/L	G	Sludge	Wastren	U	3.00E+07	
U110	U	11/10/89	89-043		18706	ugm/gm	G	Sludge	Braun	U	2.99E+07	
U110	Uranium	12/1/89	Core 6 Segment 2	1.59	1.87E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.97E+07	
T-108	Uranium				1.51E+03	g/mol	S		TRAC	U	2.96E+07	
U110	Uranium	12/1/89	Core Composite 7	1.675	1.74E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.91E+07	
U102	U				1.22E-01	moles/L	S		HTCE Inv.	U	2.91E+07	
U106	U				1.20E-01	moles/L	S		HTCE Inv.	U	2.85E+07	
U110	U	11/15/89	89-046/7/8/9		17372	ugm/gm	G	Sludge/Composite	Braun	U	2.78E+07	
U110	Uranium	12/1/89	Core Composite 6	1.54	1.79E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.76E+07	
TY103	U	9/1/85	32XCXXXX	1.7	1.62E+04	ug/g	I	Core composite	RAW	U	2.75E+07	
TY103	U	8/21/85	32XCOOOO	1.7	16200	ugm/gm	G	Sludge/Composite	Braun	U	2.75E+07	
U110	Uranium	12/1/89	Core 13 Segment 3	1.14	2.41E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.75E+07	
t107	Uranium	3/1/93	B08VB9	1.19	2.29E+04	ug/g	S	DUPLICATE RESULT	TCD	U	2.73E+07	
U110	Uranium	12/1/89	Core Composite 8		1.69E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.71E+07	
B-109	Uranium				2.65E+04	g/mol	S		TRAC	U	2.67E+07	
U107	U				1.12E-01	moles/L	S		HTCE Inv.	U	2.67E+07	
TY104	U	8/14/85	251SOOOO	1.66	15700	ugm/gm	G	Sludge/Composite	Braun	U	2.61E+07	
A102	U	2/24/87	91xcooxx R-4	1.52	1.70E+04	ug/g	I	Composite Composite	RAW	U	2.58E+07	
A102	U	3/6/86	91XCOOXX	1.52	17000	ugm/gm	G	Sludge/Composite	Braun	U	2.58E+07	
B102	U				1.06E-01	moles/L	S		HTCE Inv.	U	2.52E+07	
C103	U	5/8/87	F1XCXXXX	1.13	2.19E+04	ug/g	I	Composite	RAW	U	2.47E+07	
U110	U	11/29/89	89-072		15299	ugm/gm	G	Sludge	Braun	U	2.45E+07	
TX-110	Uranium				5.43E+03	g/mol	S		TRAC	U	2.44E+07	
U105	U				1.02E-01	moles/L	S		HTCE Inv.	U	2.43E+07	
U110	Uranium	12/1/89	Core 7 Segment 1	1.78	1.36E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.41E+07	
TY104	U	9/18/80	RAT-TY104-2	1.57	0.0152	gm/gm	G	Sludge	Braun	U	2.39E+07	
C-101	Uranium				2.48E+04	g/mol	S		TRAC	U	2.37E+07	
U110	Uranium	12/1/89	Core 12 Segment 2	1.77	1.33E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.35E+07	
TY103	U	8/21/85			2.35E+01	g/L	G	Sludge	Wastren	U	2.35E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.81E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.35E+07	
BX104	Uranium	2/26/86	72XCOOXX	1.673	14000	ugm/gm	G	Sludge/Composite	Braun	U	2.34E+07	
BX104	U	2/26/86			2.34E+01	g/L	G	Sludge	Wastren	U	2.34E+07	
U110	Uranium	12/1/89	Core Composite 6	1.54	1.51E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.32E+07	
BX-10	Uranium				1.73E+03	g/mol	S		TRAC	U	2.31E+07	
U110	Uranium	12/1/89	Core 6 Segment 2	1.59	1.44E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.29E+07	
TY104	U	8/6/85	232SOOOO	1.85	12300	ugm/gm	G	Sludge/Composite	Braun	U	2.28E+07	
U110	Uranium	12/1/89	Core 12 Segment 4	1.48	1.53E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.26E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.74E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.26E+07	
t107	Uranium	3/1/93	B08VB9	1.19	1.90E+04	ug/g	S	DUPLICATE RESULT	TCD	U	2.26E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t107	Uranium	3/1/93	B08VB9	1.19	1.87E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.23E+07	
U110	U	9/19/89	89-040		13900	ugm/gm	G	Sludge	Braun	U	2.22E+07	
BY101	U				9.34E-02	moles/L	S		HTCE Inv.	U	2.22E+07	
U110	U	11/10/89	89-043		13700	ugm/gm	G	Sludge	Braun	U	2.19E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.68E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.18E+07	
U110	Uranium	12/1/89	Core 6 Segment 2	1.59	1.37E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.18E+07	
t107	Uranium	3/1/93	B08VB9	1.19	1.82E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.17E+07	
U110	Uranium	12/1/89	Core Composite 7	1.675	1.27E+04	ug/g	I	DUPLICATE	U110 Core Data	U	2.13E+07	
A-101	Uranium				9.23E+04	g/mol	S		TRAC	U	2.12E+07	
U110	Uranium	12/1/89	Core Composite 8		1.32E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.12E+07	
U110	U	12/4/89	89-082		13200	ugm/gm	G	Sludge	Braun	U	2.11E+07	
U110	Uranium	12/1/89	Core 12 Segment 2	1.77	1.19E+04	ug/g	I	PRIMARY	U110 Core Data	U	2.11E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.58E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.05E+07	
t105	Uranium	5/28/93	B08WT4	2.01	1.02E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.05E+07	
BY109	U				8.58E-02	moles/L	S		HTCE Inv.	U	2.04E+07	
U103	U				8.54E-02	moles/L	S		HTCE Inv.	U	2.03E+07	
U110	U	11/15/89	89-047		12700	ugm/gm	G	Sludge	Braun	U	2.03E+07	
TX-109	Uranium				1.58E+04	g/mol	S		TRAC	U	2.02E+07	
B110	Uranium	4/1/90	Core Composite 9	1.32	1.53E+04	ug/g	I	PRIMARY	B110 Core Data	U	2.02E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.55E+04	ug/g	S	DUPLICATE RESULT	TCD	U	2.02E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.54E+04	ug/g	S	PRIMARY RESULT	TCD	U	2.00E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.54E+04	ug/g	S	DUPLICATE RESULT	TCD	U	2.00E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.53E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.98E+07	
C105	U	4/11/86	C1XCOOXX	1.55	12700	ugm/gm	G	Sludge/Composite	Braun	U	1.97E+07	
t107	Uranium	3/1/93	B08VB9	1.19	1.64E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.95E+07	
C-108	Uranium				1.86E+04	g/mol	S		TRAC	U	1.95E+07	
U110	Uranium	12/1/89	Core Composite 6	1.54	1.26E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.93E+07	
U110	Uranium	12/1/89	Core 7 Segment 2	1.46	1.32E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.93E+07	
U110	U	11/29/89	89-070		11900	ugm/gm	G	Sludge	Braun	U	1.90E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.46E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.90E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.45E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.89E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.44E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.88E+07	
U110	Uranium	12/1/89	Core 7 Segment 2	1.46	1.27E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.85E+07	
S-108	Uranium				2.94E+03	g/mol	S		TRAC	U	1.85E+07	
C105	U	4/1/90			1.84E+01	g/L	G	Sludge	Wastren	U	1.84E+07	
U110	Uranium	12/1/89	Core 15 Segment 3	1.3	1.42E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.84E+07	
c109	Uranium	9/1/92	B08T16	1.3	1.41E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.83E+07	
B110	Uranium	4/1/90	Core Composite 9	1.32	1.38E+04	ug/g	I	DUPLICATE	B110 Core Data	U	1.82E+07	
C102	U	7/10/86	E1XCOOXM		11200	ugm/gm	G	Sludge/Composite	Braun	U	1.79E+07	
U110	Uranium	12/1/89	Core Composite 14	1.48	1.21E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.79E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
t105	Uranium	5/28/93	B08WT4	2.01	8.88E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.78E+07	
U109	U				7.42E-02	moles/L	S		HTCE Inv.	U	1.77E+07	
U110	Uranium	12/1/89	Core Composite 14	1.48	1.19E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.76E+07	
U110	Uranium	12/1/89	Core 15 Segment 2	1.27	1.34E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.70E+07	
U110	U	11/15/89	89-047		10546	ugm/gm	G	Sludge	Braun	U	1.69E+07	
C105	U	2/1/91			1.05E+04	mg/kg	S	KOH Fusion	RAW	U	1.68E+07	
U110	Uranium	12/1/89	Core 15 Segment 2	1.27	1.32E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.68E+07	
T-105	Uranium				2.98E+04	g/mol	S		TRAC	U	1.67E+07	
C-110	Uranium				1.59E+03	g/mol	S		TRAC	U	1.66E+07	
U110	Uranium	12/1/89	Core 15 Segment 2	1.27	1.28E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.63E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.35E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.62E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.34E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.61E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.32E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.59E+07	
B103	U				6.60E-02	moles/L	S		HTCE Inv.	U	1.57E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.31E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.57E+07	
U110	Uranium	12/1/89	Core Composite 15	1.29	1.22E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.57E+07	
AX-10	Uranium				1.61E+03	g/mol	S		TRAC	U	1.57E+07	
U110	Uranium	12/1/89	Core Composite 5	1.04	1.50E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.56E+07	
BY111	U				6.50E-02	moles/L	S		HTCE Inv.	U	1.55E+07	
U110	Uranium	12/1/89	Core 7 Segment 2	1.46	1.05E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.54E+07	
T105	U	10/26/93	RAT-T105-2B	2.01	9500	ugm/gm	G	Sludge/Composite	Braun	U	1.52E+07	
B110	U				6.36E-02	moles/L	S		HTCE Inv.	U	1.51E+07	
BY102	U				6.35E-02	moles/L	S		HTCE Inv.	U	1.51E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.23E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.47E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.23E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.47E+07	
B111	U				6.17E-02	moles/L	S		HTCE Inv.	U	1.47E+07	
U110	Uranium	12/1/89	Core Composite 5	1.04	1.41E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.47E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.21E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.45E+07	
U110	Uranium	12/1/89	Core 5 Segment 3	1.04	1.39E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.45E+07	
c109	Uranium	9/1/92	B08T15	1.2	1.20E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.44E+07	
TX-111	Uranium				2.26E+03	g/mol	S		TRAC	U	1.42E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.18E+04	ug/g	S	DUPLICATE RESULT	TCD	U	1.41E+07	
U110	Uranium	12/1/89	Core 15 Segment 3	1.3	1.09E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.41E+07	
U110	Uranium	12/1/89	Core 15 Segment 4	1.31	1.08E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.41E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.15E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.39E+07	
c109	Uranium	9/1/92	B08T15	1.2	1.15E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.38E+07	
T-106	Uranium				1.57E+04	g/mol	S		TRAC	U	1.38E+07	
TY106	U	7/31/85	111C0000	1.31	10500	ugm/gm	G	Sludge/Composite	Braun	U	1.38E+07	
C102	U	2/1/91	1		8.58E+03	mg/kg	S	water leach	RAW	U	1.37E+07	
U110	U	12/3/89	89-078		8560	ugm/gm	G	Sludge	Braun	U	1.37E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Uranium	12/1/89	Core Composite 5	1.04	1.31E+04	ug/g	I	PRIMARY	U110 Core Data	U	1.36E+07	
t105	Uranium	5/28/93	B08WT3	1.49	9.09E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.35E+07	
U110	U	12/3/89	89-078		8440	ugm/gm	G	Sludge	Braun	U	1.35E+07	
U110	Uranium	12/1/89	Core 6 Segment 2	1.59	8.24E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.31E+07	
U110	Uranium	12/1/89	Core 14 Segment 2	1.39	9.40E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.31E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.08E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.30E+07	
U110	Uranium	12/1/89	Core 14 Segment 2	1.39	9.27E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.29E+07	
U110	Uranium	12/1/89	Core 12 Segment 4	1.48	8.55E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.27E+07	
U110	Uranium	12/1/89	Core Composite 14	1.48	8.52E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.26E+07	
t105	Uranium	5/28/93	B08WT3	1.49	8.39E+03	ug/g	L	PRIMARY RESULT	TCD	U	1.25E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.03E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.24E+07	
TY104	U	12/20/79	RAT-TY104-1	1.41	0.00868	gm/gm	G	Sludge	Braun	U	1.22E+07	
T-104	Uranium				2.69E+03	g/mol	S		TRAC	U	1.21E+07	
s104	Uranium	8/1/92	B08TJ5	1.6	7.53E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.20E+07	
s104	Uranium	8/1/92	B08TJ5		7.53E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.20E+07	
c109	Uranium	9/1/92	B08T17	1.2	1.00E+04	ug/g	S	PRIMARY RESULT	TCD	U	1.20E+07	
s104	Uranium	8/1/92	B08TJ5	1.6	7.51E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.20E+07	
s104	Uranium	8/1/92	B08TJ5		7.51E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.20E+07	
c109	Uranium	9/1/92	B08T17	1.2	9.98E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.20E+07	
U110	Uranium	12/1/89	Core 14 Segment 2	1.39	8.56E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.19E+07	
U110	Uranium	12/1/89	Core 5 Segment 3	1.04	1.13E+04	ug/g	I	DUPLICATE	U110 Core Data	U	1.18E+07	
U110	Uranium	12/1/89	Core 14 Segment 2	1.39	8.44E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.17E+07	
c109	Uranium	9/1/92	B08T17	1.2	9.71E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.16E+07	
s104	Uranium	8/1/92	B08TF7	1.6	7.27E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.16E+07	
s104	Uranium	8/1/92	B08TF7		7.27E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.16E+07	
U110	U	12/15/89	89-070/1/2		7130	ugm/gm	G	Sludge/Composite	Braun	U	1.14E+07	
s104	Uranium	8/1/92	B08TF6	1.6	7.10E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.14E+07	
s104	Uranium	8/1/92	B08TF6		7.10E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.14E+07	
C102	U	2/1/91	2		7.10E+03	mg/kg	S	water leach	RAW	U	1.14E+07	
s104	Uranium	8/1/92	B08TJ4	1.6	7.06E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.13E+07	
s104	Uranium	8/1/92	B08TJ4		7.06E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.13E+07	
U110	Uranium	12/1/89	Core Composite 13	1.3	8.65E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.12E+07	
U110	Uranium	12/1/89	Core 15 Segment 2	1.27	8.83E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.12E+07	
B101	U				4.66E-02	moles/L	S		HTCE Inv.	U	1.11E+07	
S104	U	6/24/93	F-2162		6930	ugm/gm	G	Sludge	Braun	U	1.11E+07	
s104	Uranium	8/1/92	B08TF7	1.6	6.90E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.10E+07	
s104	Uranium	8/1/92	B08TF7		6.90E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.10E+07	
C103	Uranium	5/19/87	F2XDXXXX		1.10E+01	g/L	L	Drainable Liquor	RAW	U	1.10E+07	
C103	Uranium	5/19/87	F2XDXXXX		1.10E+01	g/L	L	Drainable Liquor	RAW	U	1.10E+07	
C103	U	5/14/86	F2XDOOXX	1.08	11	gm/l	L	Liquor	Braun	U	1.10E+07	
S104	U	6/24/93	F-2171		6810	ugm/gm	G	Sludge	Braun	U	1.09E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
S104	U	6/24/93	F-2175		6790	ugm/gm	G	Sludge	Braun	U	1.09E+07	
U110	Uranium	12/1/89	Core 12 Segment 4	1.48	7.33E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.08E+07	
C107	U	8/2/77	T-8110-10		10.6	gm/l	G	Sludge	Braun	U	1.06E+07	
U110	Uranium	12/1/89	Core Composite 6	1.54	6.83E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.05E+07	
s104	Uranium	8/1/92	B08TJ4	1.6	6.52E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.04E+07	
s104	Uranium	8/1/92	B08TJ4		6.52E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.04E+07	
BX105	Uranium	3/3/86	81XCOOXX	1.58	6600	ugm/gm	G	Sludge/Composite	Braun	U	1.04E+07	
s104	Uranium	8/1/92	B08TF6	1.6	6.51E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.04E+07	
s104	Uranium	8/1/92	B08TF6		6.51E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.04E+07	
c109	Uranium	9/1/92	B08T17	1.2	8.66E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.04E+07	
c112	Uranium	3/1/92	B08DM7	1.6	6.46E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.03E+07	
SX106	U				4.30E-02	moles/L	S		HTCE Inv.	U	1.02E+07	
U110	Uranium	12/1/89	Core Composite 5	1.04	9.78E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.02E+07	
U110	Uranium (ug/g)	12/1/89	Core Composite 6	1.54	6.60E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.02E+07	
U110	U	11/30/89	89-075		6350	ugm/gm	G	Sludge	Braun	U	1.02E+07	
U110	Uranium (ug/g)	12/1/89	Core Composite 12	1.42	7.13E+03	ug/g	I	PRIMARY	U110 Core Data	U	1.01E+07	
s104	Uranium	8/1/92	B08TL4	1.6	6.32E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.01E+07	
s104	Uranium	8/1/92	B08TL4		6.32E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.01E+07	
B112	U				4.24E-02	moles/L	S		HTCE Inv.	U	1.01E+07	
c112	Uranium	3/1/92	B08DM7	1.6	6.29E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.01E+07	
c112	Uranium	3/1/92	B08DM7	1.6	6.25E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.00E+07	
BY105	U				4.20E-02	moles/L	S		HTCE Inv.	U	9.99E+06	
BY-110	Uranium				7.93E+02	g/mol	S		TRAC	U	9.96E+06	
s104	Uranium	8/1/92	B08TL3	1.6	6.21E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.94E+06	
s104	Uranium	8/1/92	B08TL3		6.21E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.94E+06	
t107	Uranium	3/1/93	B08V44	1.1	9.02E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.92E+06	
t107	Uranium	3/1/93	B08V44	1.1	9.02E+03	ug/g	S	PRIMARY RESULT	TCD	U	9.92E+06	
S104	U	6/24/93	F-2177		6170	ugm/gm	G	Sludge	Braun	U	9.87E+06	
s104	Uranium	8/1/92	B08TL3	1.6	6.14E+03	ug/g	S	PRIMARY RESULT	TCD	U	9.82E+06	
s104	Uranium	8/1/92	B08TL3		6.14E+03	ug/g	S	PRIMARY RESULT	TCD	U	9.82E+06	
U110	Uranium	12/1/89	Core 12 Segment 4	1.48	6.62E+03	ug/g	I	DUPLICATE	U110 Core Data	U	9.80E+06	
c112	Uranium	3/1/92	B08DM7	1.6	6.11E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.77E+06	
U110	U	11/30/89	89-073/4/5/6		6100	ugm/gm	G	Sludge/Composite	Braun	U	9.76E+06	
U110	U	11/15/89	89-048		6091	ugm/gm	G	Sludge	Braun	U	9.75E+06	
S104	U	6/24/93	F-2168		6090	ugm/gm	G	Sludge	Braun	U	9.74E+06	
S-110	Uranium				1.07E+04	g/mol	S		TRAC	U	9.74E+06	
c112	Uranium	3/1/92	B08DM7	1.6	5.98E+03	ug/g	S	PRIMARY RESULT	TCD	U	9.56E+06	
c112	Uranium	3/1/92	B08DM7	1.6	5.95E+03	ug/g	S	PRIMARY RESULT	TCD	U	9.53E+06	
U108	U				4.00E-02	moles/L	S		HTCE Inv.	U	9.51E+06	
S102	U				3.99E-02	moles/L	S		HTCE Inv.	U	9.49E+06	
TX-116	Uranium				3.80E+04	g/mol	S		TRAC	U	9.43E+06	

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
c112	Uranium	3/1/92	B08DM7	1.6	5.89E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.42E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 12	1.42	6.60E+03	ug/g	I	DUPLICATE	U110 Core Data	U	9.37E+06	
U110	Uranium	12/1/89	Core 7 Segment 3	1.53	6.09E+03	ug/g	I	PRIMARY	U110 Core Data	U	9.32E+06	
c112	Uranium	3/1/92	B08DM7	1.6	5.80E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.27E+06	
S104	U	6/24/93	F-2166		5740	ugm/gm	G	Sludge	Braun	U	9.18E+06	
BY112	U				3.85E-02	moles/L	S		HTCE Inv.	U	9.16E+06	
U110	Uranium	12/1/89	Core 7 Segment 1	1.78	5.10E+03	ug/g	I	PRIMARY	U110 Core Data	U	9.08E+06	
S-101	Uranium				2.86E+04	g/mol	S		TRAC	U	9.07E+06	
B110	Uranium	4/1/90	Core Composite 1	1.36	6.67E+03	ug/g	I	PRIMARY	B110 Core Data	U	9.07E+06	
c112	Uranium	3/1/92	B08DM7	1.6	5.66E+03	ug/g	S	DUPLICATE RESULT	TCD	U	9.06E+06	
S103	U				3.76E-02	moles/L	S		HTCE Inv.	U	8.95E+06	
A101	U				3.74E-02	moles/L	S		HTCE Inv.	U	8.91E+06	
B110	Uranium	4/1/90	Core Composite 1	1.36	6.52E+03	ug/g	I	DUPLICATE	B110 Core Data	U	8.86E+06	
U111	U				3.72E-02	moles/L	S		HTCE Inv.	U	8.86E+06	
t107	Uranium	3/1/93	B08V44	1.1	7.98E+03	ug/g	S	PRIMARY RESULT	TCD	U	8.78E+06	
U110	U	9/19/89	89-040/1		5450	ugm/gm	G	Sludge/Composite	Braun	U	8.72E+06	
U110	U				3.65E-02	moles/L	S		HTCE Inv.	U	8.68E+06	
TY105	U	9/13/85	61XC0000		5400	ugm/gm	G	Sludge/Composite	Braun	U	8.64E+06	
TY106	U	9/26/85			8.58E+00	g/L	G	Sludge	Wastren	U	8.58E+06	
TY106	U	9/26/85	161C0000	1.43	6000	ugm/gm	G	Sludge/Composite	Braun	U	8.58E+06	
c109	Uranium	9/1/92	B08T17	1.2	7.15E+03	ug/g	S	DUPLICATE RESULT	TCD	U	8.58E+06	
B-110	Uranium				7.96E+04	g/mol	S		TRAC	U	8.47E+06	
A102	U				3.56E-02	moles/L	S		HTCE Inv.	U	8.46E+06	
t107	Uranium	3/1/93	B08V44	1.1	7.68E+03	ug/g	S	DUPLICATE RESULT	TCD	U	8.45E+06	
U110	U	12/4/89	89-083		5170	ugm/gm	G	Sludge	Braun	U	8.27E+06	
TY105	U	9/13/85	61XC0000	1.53	5400	ugm/gm	G	Sludge/Composite	Braun	U	8.26E+06	
TY105	U	9/13/85			8.26E+00	g/L	G	Sludge	Wastren	U	8.26E+06	
s104	Uranium	8/1/92	B08TL4	1.6	5.15E+03	ug/g	S	PRIMARY RESULT	TCD	U	8.24E+06	
s104	Uranium	8/1/92	B08TL4		5.15E+03	ug/g	S	PRIMARY RESULT	TCD	U	8.24E+06	
U110	U	11/15/89	89-046		5102	ugm/gm	G	Sludge	Braun	U	8.16E+06	
U110	U	11/10/89	89-044		5060	ugm/gm	G	Sludge	Braun	U	8.10E+06	
U110	Uranium	12/1/89	Core 7 Segment 3	1.53	5.25E+03	ug/g	I	PRIMARY	U110 Core Data	U	8.03E+06	
c109	Uranium	9/1/92	B08T15	1.2	6.62E+03	ug/g	S	PRIMARY RESULT	TCD	U	7.94E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 13	1.3	6.10E+03	ug/g	I	PRIMARY	U110 Core Data	U	7.93E+06	
B110	Uranium	4/1/90	Core Composite 1	1.36	5.80E+03	ug/g	I	PRIMARY	B110 Core Data	U	7.89E+06	
t107	Uranium	3/1/93	B08V44	1.1	7.16E+03	ug/g	S	PRIMARY RESULT	TCD	U	7.88E+06	
U110	Uranium	12/1/89	Core 15 Segment 3	1.3	6.00E+03	ug/g	I	DUPLICATE	U110 Core Data	U	7.80E+06	
c112	Uranium	3/1/92	B08DM7	1.6	4.86E+03	ug/g	S	PRIMARY RESULT	TCD	U	7.77E+06	
U110	Uranium	12/1/89	Core 7 Segment 3	1.53	5.00E+03	ug/g	I	DUPLICATE	U110 Core Data	U	7.65E+06	
U110	U	12/3/89	89-079		4780	ugm/gm	G	Sludge	Braun	U	7.65E+06	
t107	Uranium	3/1/93	B08V44	1.1	6.94E+03	ug/g	S	DUPLICATE RESULT	TCD	U	7.63E+06	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Uranium	12/1/89	Core 15 Segment 4	1.31	5.81E+03	ug/g	I	PRIMARY	U110 Core Data	U	7.61E+06	
c109	Uranium	9/1/92	B08T15	1.2	6.24E+03	ug/g	S	PRIMARY RESULT	TCD	U	7.49E+06	
U110	Uranium	12/1/89	Core 6 Segment 3	1.22	6.12E+03	ug/g	I	DUPLICATE	U110 Core Data	U	7.47E+06	
U110	U	11/10/89	89-043/4/5		4580	ugm/gm	G	Sludge/Composite	Braun	U	7.33E+06	
U110	Uranium	12/1/89	Core 13 Segment 3	1.14	6.35E+03	ug/g	I	PRIMARY	U110 Core Data	U	7.24E+06	
S105	U				3.04E-02	moles/L	S		HTCE Inv.	U	7.23E+06	
C103	U	5/8/87	F1XCXXXX	1.54	4.69E+03	ug/g	I	Composite	RAW	U	7.22E+06	
C103	U	5/14/86	F2XCOOXX	1.54	4690	ugm/gm	G	Sludge/Composite	Braun	U	7.22E+06	
S108	U				3.03E-02	moles/L	S		HTCE Inv.	U	7.21E+06	
S112	U				3.02E-02	moles/L	S		HTCE Inv.	U	7.20E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 7	1.675	4.26E+03	ug/g	I	DUPLICATE	U110 Core Data	U	7.14E+06	
S109	U				2.98E-02	moles/L	S		HTCE Inv.	U	7.09E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 6	1.54	4.58E+03	ug/g	I	PRIMARY	U110 Core Data	U	7.05E+06	
B106	U				2.92E-02	moles/L	S		HTCE Inv.	U	6.95E+06	
AX10	U				2.92E-02	moles/L	S		HTCE Inv.	U	6.94E+06	
A105	U				2.92E-02	moles/L	S		HTCE Inv.	U	6.94E+06	
B105	U				2.90E-02	moles/L	S		HTCE Inv.	U	6.91E+06	
AX10	U				2.90E-02	moles/L	S		HTCE Inv.	U	6.91E+06	
U110	Uranium	12/1/89	Core 6 Segment 3	1.22	5.66E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.90E+06	
U110	U	12/4/89	89-082/3/4		4310	ugm/gm	G	Sludge/Composite	Braun	U	6.90E+06	
SX102	U				2.89E-02	moles/L	S		HTCE Inv.	U	6.87E+06	
B104	U				2.87E-02	moles/L	S		HTCE Inv.	U	6.83E+06	
S106	U				2.87E-02	moles/L	S		HTCE Inv.	U	6.83E+06	
c109	Uranium	9/1/92	B08T15	1.2	5.68E+03	ug/g	S	DUPLICATE RESULT	TCD	U	6.82E+06	
BY-106	Uranium				3.03E+03	g/mol	S		TRAC	U	6.80E+06	
U110	Uranium	12/1/89	Core 15 Segment 3	1.3	5.17E+03	ug/g	I	PRIMARY	U110 Core Data	U	6.72E+06	
C101	U				2.82E-02	moles/L	S		HTCE Inv.	U	6.71E+06	
U110	Uranium	12/1/89	Core 7 Segment 4	1.93	3.48E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.71E+06	
U104	U	3/14/61			6.71E+00	g/L	G	Sludge	Wastren	U	6.71E+06	
U104	U	3/14/61	M-179	1.048	0.056	lb/gal	G	Sludge	Braun	U	6.71E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 3	1.3	5.15E+03	ug/g	I	PRIMARY	B110 Core Data	U	6.70E+06	
SX105	U				2.81E-02	moles/L	S		HTCE Inv.	U	6.70E+06	
U110	Uranium	12/1/89	Core 14 Segment 3	1.4	4.78E+03	ug/g	I	PRIMARY	U110 Core Data	U	6.69E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 13	1.3	5.14E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.68E+06	
U110	Uranium	12/1/89	Core 14 Segment 3	1.4	4.71E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.59E+06	
U110	Uranium	12/1/89	Core 13 Segment 3	1.14	5.77E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.58E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 7	1.675	3.91E+03	ug/g	I	PRIMARY	U110 Core Data	U	6.55E+06	
SX-11	Uranium				1.53E+04	g/mol	S		TRAC	U	6.54E+06	
c109	Uranium	9/1/92	B08T15	1.2	5.44E+03	ug/g	S	DUPLICATE RESULT	TCD	U	6.53E+06	
BY104	U	11/12/92			6.51E+00	g/L	K	Saltcake	Wastren	U	6.51E+06	
U110	Uranium	12/1/89	Core 6 Segment 4	1.8	3.55E+03	ug/g	I	DUPLICATE	U110 Core Data	U	6.40E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX109	U				2.69E-02	moles/L	S		HTCE Inv.	U	6.39E+06	
B110	Uranium	4/1/90	Core Composite 3	1.36	4.64E+03	ug/g	I	DUPLICATE	B110 Core Data	U	6.31E+06	
S111	U				2.64E-02	moles/L	S		HTCE Inv.	U	6.29E+06	
U110	U	11/15/89	89-046/7/8/9		3910	ugm/gm	G	Sludge/Composite	Braun	U	6.26E+06	
U110	U	11/30/89	89-076		3900	ugm/gm	G	Sludge	Braun	U	6.24E+06	
C-103	Uranium				8.99E+04	g/mol	S		TRAC	U	6.18E+06	
U110	Uranium	12/1/89	Core 6 Segment 3	1.22	5.06E+03	ug/g	I	PRIMARY	U110 Core Data	U	6.17E+06	
S-104	Uranium				2.48E+04	g/mol	S		TRAC	U	6.16E+06	
SX103	U				2.59E-02	moles/L	S		HTCE Inv.	U	6.15E+06	
B110	Uranium	4/1/90	CORE 1 SEGMENT 2	1.3	4.67E+03	ug/g	I	PRIMARY	B110 Core Data	U	6.07E+06	
B110	Uranium	4/1/90	Core Composite 10	1.34	4.50E+03	ug/g	I	DUPLICATE	B110 Core Data	U	6.03E+06	
B109	U				2.53E-02	moles/L	S		HTCE Inv.	U	6.02E+06	
U110	Uranium	12/1/89	Core 13 Segment 4	1.46	4.10E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.99E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 4	1.3	4.59E+03	ug/g	I		B110 Core Data	U	5.97E+06	
BY104	U	11/12/92	R-1773		3725	ugm/gm	T	Crust	Braun	U	5.96E+06	
U110	Uranium	12/1/89	Core 7 Segment 3	1.53	3.86E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.90E+06	
B110	Uranium	4/1/90	Core Composite 4	1.36	4.33E+03	ug/g	I	PRIMARY	B110 Core Data	U	5.88E+06	
c112	Uranium	3/1/92	B08DN6	1.3	4.52E+03	ug/g	S	PRIMARY RESULT	TCD	U	5.87E+06	
c112	Uranium	3/1/92	B08DN6	1.3	4.50E+03	ug/g	S	DUPLICATE RESULT	TCD	U	5.85E+06	
TX-112	Uranium				4.65E+02	g/mol	S		TRAC	U	5.84E+06	
c112	Uranium	3/1/92	B08DN6	1.3	4.45E+03	ug/g	S	DUPLICATE RESULT	TCD	U	5.78E+06	
U-108	Uranium				1.14E+04	g/mol	S		TRAC	U	5.77E+06	
B110	Uranium	4/1/90	Core Composite 2	1.33	4.32E+03	ug/g	I	PRIMARY	B110 Core Data	U	5.74E+06	
U110	Uranium	12/1/89	Core Composite 15	1.29	4.45E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.74E+06	
U110	U	12/3/89	89-077/8/9/0		3580	ugm/gm	G	Sludge/Composite	Braun	U	5.73E+06	
B110	Uranium	4/1/90	Core Composite 1	1.36	4.20E+03	ug/g	I	DUPLICATE	B110 Core Data	U	5.71E+06	
U110	Uranium	12/1/89	Core 14 Segment 1	1.5	3.80E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.70E+06	
U110	Uranium	12/1/89	Core 13 Segment 4	1.46	3.90E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.69E+06	
U110	Uranium	12/1/89	Core 14 Segment 1	1.5	3.79E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.69E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 5	1.04	5.45E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.67E+06	
U110	Uranium	12/1/89	Core Composite 8		3.51E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.61E+06	
U110	Uranium	12/1/89	Core 7 Segment 4	1.93	2.89E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.58E+06	
B-112	Uranium				7.29E+03	g/mol	S		TRAC	U	5.56E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 15	1.29	4.31E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.56E+06	
c112	Uranium	3/1/92	B08DN6	1.3	4.28E+03	ug/g	S	PRIMARY RESULT	TCD	U	5.56E+06	
U110	Uranium	12/1/89	Core 14 Segment 4	1.62	3.42E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.54E+06	
BY103	U				2.31E-02	moles/L	S		HTCE Inv.	U	5.51E+06	
SX104	U				2.31E-02	moles/L	S		HTCE Inv.	U	5.49E+06	
SX-10	Uranium				2.06E+04	g/mol	S		TRAC	U	5.44E+06	
S110	U				2.27E-02	moles/L	S		HTCE Inv.	U	5.40E+06	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
U110	Uranium	12/1/89	Core 7 Segment 2	1.46	3.67E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.36E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 5	1.04	5.15E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.36E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 2	1.3	4.11E+03	ug/g	I	DUPLICATE	B110 Core Data	U	5.34E+06	
U110	Uranium	12/1/89	Core Composite 14	1.48	3.58E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.30E+06	
U110	Uranium	12/1/89	Core Composite 14	1.48	3.58E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.30E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 14	1.48	3.58E+03	ug/g	I	PRIMARY	U110 Core Data	U	5.30E+06	
C108	U				2.22E-02	moles/L	S		HTCE Inv.	U	5.29E+06	
A106	U				2.21E-02	moles/L	S		HTCE Inv.	U	5.25E+06	
U110	Uranium	12/1/89	Core 13 Segment 4	1.46	3.57E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.21E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 3	1.3	4.01E+03	ug/g	I	DUPLICATE	B110 Core Data	U	5.21E+06	
T111	U	8/7/92	J-470		3180	ugm/gm	G	Sludge/Composite	Braun	U	5.09E+06	
U110	Uranium	12/1/89	Core Composite 14	1.48	3.42E+03	ug/g	I	DUPLICATE	U110 Core Data	U	5.06E+06	
A-104	Uranium				2.30E+04	g/mol	S		TRAC	U	5.02E+06	
BY106	U				2.09E-02	moles/L	S		HTCE Inv.	U	4.98E+06	
U110	Uranium	12/1/89	Core 6 Segment 4	1.8	2.76E+03	ug/g	I	PRIMARY	U110 Core Data	U	4.97E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 14	1.48	3.27E+03	ug/g	I	DUPLICATE	U110 Core Data	U	4.84E+06	
U110	Uranium	12/1/89	Core Composite 8		3.01E+03	ug/g	I	DUPLICATE	U110 Core Data	U	4.81E+06	
BX111	U				2.01E-02	moles/L	S		HTCE Inv.	U	4.78E+06	
U110	Uranium	12/1/89	Core 13 Segment 4	1.46	3.26E+03	ug/g	I	PRIMARY	U110 Core Data	U	4.76E+06	
c112	Uranium	3/1/92	B08DM7	1.6	2.96E+03	ug/g	S	PRIMARY RESULT	TCD	U	4.74E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 5	1.3	3.62E+03	ug/g	I		B110 Core Data	U	4.70E+06	
U110	Uranium	12/1/89	Core 14 Segment 4	1.62	2.90E+03	ug/g	I	PRIMARY	U110 Core Data	U	4.69E+06	
S101	U				1.96E-02	moles/L	S		HTCE Inv.	U	4.68E+06	
U110	Uranium	12/1/89	Core Composite 13	1.3	3.58E+03	ug/g	I	DUPLICATE	U110 Core Data	U	4.65E+06	
U110	Uranium	12/1/89	Core 5 Segment 4		2.89E+03	ug/g	I	DUPLICATE	U110 Core Data	U	4.62E+06	
B110	Uranium	4/1/90	Core Composite 10	1.34	3.41E+03	ug/g	I	PRIMARY	B110 Core Data	U	4.57E+06	
BY107	U				1.92E-02	moles/L	S		HTCE Inv.	U	4.56E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 3	1.3	3.50E+03	ug/g	I	DUPLICATE	B110 Core Data	U	4.55E+06	
c112	Uranium	3/1/92	B08DN6	1.3	3.50E+03	ug/g	S	PRIMARY RESULT	TCD	U	4.54E+06	
BX107	U	10/20/92	J925-AV		2820	ugm/gm	G	Sludge/Composite	Braun	U	4.51E+06	
U110	Uranium	12/1/89	Core 6 Segment 3	1.22	3.64E+03	ug/g	I	PRIMARY	U110 Core Data	U	4.44E+06	
B108	U				1.86E-02	moles/L	S		HTCE Inv.	U	4.43E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 2	1.3	3.41E+03	ug/g	I	DUPLICATE	B110 Core Data	U	4.43E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 3	1.3	3.34E+03	ug/g	I	PRIMARY	B110 Core Data	U	4.34E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 15	1.29	3.29E+03	ug/g	I	DUPLICATE	U110 Core Data	U	4.24E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 2	1.3	3.25E+03	ug/g	I	PRIMARY	B110 Core Data	U	4.23E+06	
SX114	U				1.75E-02	moles/L	S		HTCE Inv.	U	4.16E+06	
SX-11	Uranium				2.68E+04	g/mol	S		TRAC	U	4.16E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 4	1.3	3.17E+03	ug/g	I		B110 Core Data	U	4.12E+06	
BY104	U				1.69E-02	moles/L	S		HTCE Inv.	U	4.02E+06	
BX105	U	3/4/86			3.96E+00	g/L	G	Sludge	Wastren	U	3.96E+06	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
BX105	Uranium	3/4/86	82XCOOXX	1.79	2210	ugm/gm	G	Sludge/Composite	Braun	U	3.96E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 2	1.3	3.00E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.90E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 5	1.28	3.05E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.90E+06	
SX-11	Uranium				3.39E+04	g/mol	S		TRAC	U	3.86E+06	
B110	Uranium	4/1/90	Core Composite 3	1.36	2.82E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.83E+06	
TY101	U	9/1/85		1.64	2.33E+03	ug/g	I	core composite	RAW	U	3.82E+06	
TY101	U	9/11/85	51XCOOOO	1.64	2330	ugm/gm	G	Sludge/Composite	Braun	U	3.82E+06	
TY101	U	9/11/85			3.82E+00	g/L	G	Sludge	Wastren	U	3.82E+06	
B-106	Uranium				3.45E+03	g/mol	S		TRAC	U	3.75E+06	
B110	Uranium	4/1/90	CORE 3 SEGMENT 3	1.3	2.86E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.72E+06	
B110	Uranium	4/1/90	CORE 3 SEGMENT 3	1.3	2.85E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.70E+06	
c112	Uranium	3/1/92	B08DN6	1.3	2.85E+03	ug/g	S	PRIMARY RESULT	TCD	U	3.70E+06	
c112	Uranium	3/1/92	B08DN6	1.3	2.72E+03	ug/g	S	DUPLICATE RESULT	TCD	U	3.54E+06	
SX-10	Uranium				1.76E+04	g/mol	S		TRAC	U	3.53E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 5	1.3	2.71E+03	ug/g	I		B110 Core Data	U	3.52E+06	
U110	U	9/19/89	89-041		2200	ugm/gm	G	Sludge	Braun	U	3.52E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 4	1.3	2.70E+03	ug/g	I		B110 Core Data	U	3.51E+06	
T111	U	8/7/92	J-466		2180	ugm/gm	G	Sludge/Composite	Braun	U	3.49E+06	
U110	Uranium	12/1/89	Core 5 Segment 4		2.16E+03	ug/g	I	PRIMARY	U110 Core Data	U	3.46E+06	
BY110	U				1.45E-02	moles/L	S		HTCE Inv.	U	3.46E+06	
A102	U	1/5/88	92xcooxx R-4	1.66	2.08E+03	ug/g	I	Composite Composite	RAW	U	3.45E+06	
A102	U	3/8/86	92XCOOXX	1.66	2080	ugm/gm	G	Sludge/Composite	Braun	U	3.45E+06	
BY-103	Uranium				5.88E+04	g/mol	S		TRAC	U	3.45E+06	
U110	U	11/29/89	89-071		2150	ugm/gm	G	Sludge	Braun	U	3.44E+06	
B110	Uranium	4/1/90	Core Composite 18	1.37	2.51E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.44E+06	
U110	Uranium	12/1/89	Core 12 Segment 3	1	3.42E+03	ug/g	I	DUPLICATE	U110 Core Data	U	3.42E+06	
U110	Uranium	12/1/89	Core 7 Segment 4	1.93	1.77E+03	ug/g	I	DUPLICATE	U110 Core Data	U	3.42E+06	
SX109	U				1.43E-02	moles/L	S		HTCE Inv.	U	3.40E+06	
TY106	U	9/18/80	RAT-TY106-2	1.86	0.0018004	gm/gm	G	Sludge	Braun	U	3.35E+06	
U110	Uranium	12/1/89	Core 12 Segment 3	1	3.26E+03	ug/g	I	PRIMARY	U110 Core Data	U	3.26E+06	
B110	Uranium	4/1/90	Core Composite 3	1.36	2.40E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.26E+06	
SX110	U				1.36E-02	moles/L	S		HTCE Inv.	U	3.24E+06	
BX107	U	10/20/92	J926-AV		2020	ugm/gm	G	Sludge/Composite	Braun	U	3.23E+06	
BX-11	Uranium				3.03E+03	g/mol	S		TRAC	U	3.22E+06	
S107	U				1.34E-02	moles/L	S		HTCE Inv.	U	3.19E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 2	1.24	2.57E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.18E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 2	1.24	2.53E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.14E+06	
SX-10	Uranium				2.21E+04	g/mol	S		TRAC	U	3.13E+06	
B110	Uranium	4/1/90	Core Composite 10	1.34	2.33E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.12E+06	
B110	Uranium	4/1/90	Core Composite 10	1.34	2.32E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.11E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Uranium	4/1/90	CORE 10 SEGMENT 5	1.36	2.26E+03	ug/g	I		B110 Core Data	U	3.08E+06	
B110	Uranium	4/1/90	Core Composite 18	1.37	2.25E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.08E+06	
U110	Uranium	12/1/89	Core 7 Segment 4	1.93	1.59E+03	ug/g	I	PRIMARY	U110 Core Data	U	3.07E+06	
TY-101	Uranium				3.12E+03	g/mol	S		TRAC	U	3.06E+06	
U110	U	12/3/89	89-079		1910	ugm/gm	G	Sludge	Braun	U	3.06E+06	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.28E+03	ug/g	I	DUPLICATE	B110 Core Data	U	3.03E+06	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.27E+03	ug/g	I	PRIMARY	B110 Core Data	U	3.02E+06	
SX115	U				1.27E-02	moles/L	S		HTCE Inv.	U	3.02E+06	
SX101	U				1.26E-02	moles/L	S		HTCE Inv.	U	3.00E+06	
AX10	U				1.25E-02	moles/L	S		HTCE Inv.	U	2.98E+06	
B110	Uranium	4/1/90	CORE 10 SEGMENT 5	1.36	2.19E+03	ug/g	I		B110 Core Data	U	2.97E+06	
B110	Uranium	4/1/90	Core Composite 18	1.37	2.16E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.96E+06	
BX107	U	10/20/92	J924-AV		1815	ugm/gm	G	Sludge/Composite	Braun	U	2.90E+06	
B110	Uranium	4/1/90	CORE 4 SEGMENT 4	1.3	2.17E+03	ug/g	I		B110 Core Data	U	2.82E+06	
SX107	U	1/29/77	1345	1.33	0.00212	gm/gm	A	Salts	Braun	U	2.82E+06	
U104	U	3/14/61	M-130	1.019	0.023	lb/gal	S	Solids	Braun	U	2.76E+06	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.07E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.75E+06	
B110	Uranium	4/1/90	Core Composite 18	1.37	2.00E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.74E+06	
B110	Uranium	4/1/90	Core Composite 4	1.36	2.01E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.73E+06	
B110	Uranium	4/1/90	Core Composite 3	1.36	2.00E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.72E+06	
TX-118	Uranium				9.47E+04	g/mol	S		TRAC	U	2.72E+06	
U110	Uranium	12/1/89	Core 14 Segment 3	1.4	1.91E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.67E+06	
C102	U				1.11E-02	moles/L	S		HTCE Inv.	U	2.65E+06	
A-102	Uranium				1.24E+04	g/mol	S		TRAC	U	2.65E+06	
C103	Uranium	5/19/87	F1XDXXXX		2.63E+00	g/L	S		RAW	U	2.63E+06	
C103	Uranium	5/19/87	F1XDXXXX		2.63E+00	g/L	S		RAW	U	2.63E+06	
C103	U	5/7/86	F1XDOOXX	1.11	2.63	gm/l	S		Braun	U	2.63E+06	
BY104	U	11/12/92	R-1775		1640	ugm/gm	T	Crust	Braun	U	2.62E+06	
SX-11	Uranium				8.69E+03	g/mol	S		TRAC	U	2.60E+06	
T-112	Uranium				2.62E+04	g/mol	S		TRAC	U	2.60E+06	
C106	U				1.08E-02	moles/L	S		HTCE Inv.	U	2.58E+06	
B110	Uranium	4/1/90	CORE 3 SEGMENT 5	1.3	1.97E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.56E+06	
AX10	U				1.07E-02	moles/L	S		HTCE Inv.	U	2.56E+06	
U110	U	11/15/89	89-049		1590	ugm/gm	G	Sludge	Braun	U	2.54E+06	
U110	U	12/4/89	89-084		1580	ugm/gm	G	Sludge	Braun	U	2.53E+06	
BY108	U				1.06E-02	moles/L	S		HTCE Inv.	U	2.51E+06	
U110	Uranium	12/1/89	Core 6 Segment 4	1.8	1.39E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.50E+06	
TY103	U	2/1/80	RAT-TY103-2	1.5	0.0016654	gm/gm	G	Sludge	Braun	U	2.50E+06	
C103	U	5/7/86	F1XCOOXX	1.13	2190	ugm/gm	G	Sludge/Composite	Braun	U	2.47E+06	
SX111	U				1.03E-02	moles/L	S		HTCE Inv.	U	2.45E+06	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
U110	Uranium	12/1/89	Core 14 Segment 3	1.4	1.75E+03	ug/g	I	DUPLICATE	U110 Core Data	U	2.45E+06	
U110	Uranium	12/1/89	Core 14 Segment 4	1.62	1.51E+03	ug/g	I	DUPLICATE	U110 Core Data	U	2.45E+06	
U110	Uranium	12/1/89	Core Composite 13	1.3	1.87E+03	ug/g	I	DUPLICATE	U110 Core Data	U	2.43E+06	
U110	Uranium	12/1/89	Core Composite 13	1.3	1.85E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.40E+06	
C107	U	8/2/77	T-8110-11		2.4	gm/l	G	Sludge	Braun	U	2.40E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 5	1.28	1.87E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.39E+06	
B110	Uranium	4/1/90	CORE 3 SEGMENT 5	1.3	1.81E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.36E+06	
U110	Uranium	12/1/89	Core 6 Segment 4	1.8	1.31E+03	ug/g	I	DUPLICATE	U110 Core Data	U	2.36E+06	
B110	Uranium	4/1/90	CORE 10 SEGMENT 3	1.17	1.98E+03	ug/g	I		B110 Core Data	U	2.32E+06	
B110	Uranium	4/1/90	Core Composite 4	1.36	1.69E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.30E+06	
B110	Uranium	4/1/90	CORE 10 SEGMENT 3	1.17	1.95E+03	ug/g	I		B110 Core Data	U	2.28E+06	
S-111	Uranium				1.44E+03	g/mol	S		TRAC	U	2.26E+06	
A106	U	3/11/86	A1XCOOXX	1.56	1440	ugm/gm	G	Sludge/Composite	Braun	U	2.25E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 3	1.29	1.73E+03	ug/g	I	DUPLICATE	B110 Core Data	U	2.23E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 3	1.29	1.73E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.23E+06	
U110	Uranium	12/1/89	Core 14 Segment 4	1.62	1.37E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.22E+06	
U110	U	12/3/89	89-080		1370	ugm/gm	G	Sludge	Braun	U	2.19E+06	
SX-10	Uranium				1.35E+04	g/mol	S		TRAC	U	2.17E+06	
SX-10	Uranium				1.45E+04	g/mol	S		TRAC	U	2.17E+06	
C102	U	12/1/86	RAT-C102-2		1350	ugm/gm	I	Composite	Braun	U	2.16E+06	
U110	Uranium	12/1/89	Core 12 Segment 3	1	2.15E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.15E+06	
U110	Uranium	12/1/89	Core 15 Segment 4	1.31	1.58E+03	ug/g	I	PRIMARY	U110 Core Data	U	2.07E+06	
B110	Uranium	4/1/90	CORE 9 SEGMENT 5	1.24	1.66E+03	ug/g	I		B110 Core Data	U	2.06E+06	
B110	Uranium	4/1/90	CORE 9 SEGMENT 5	1.24	1.65E+03	ug/g	I		B110 Core Data	U	2.05E+06	
B110	Uranium	4/1/90	Core Composite 9	1.32	1.53E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.03E+06	
A103	Uranium	3/26/86	B1XCOOXX	1.34	1500	ugm/gm	G	Sludge/Composite	Braun	U	2.01E+06	
A103	U	2/24/87	B1xc00xx R-17	1.34	1.50E+03	ug/g	I	Composite Composite	RAW	U	2.01E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 5	1.28	1.57E+03	ug/g	I	PRIMARY	B110 Core Data	U	2.01E+06	
U110	Uranium	12/1/89	Core 15 Segment 4	1.31	1.52E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.99E+06	
B110	Uranium	4/1/90	Core Composite 9	1.32	1.50E+03	ug/g	I	DUPLICATE	B110 Core Data	U	1.98E+06	
B110	Uranium	4/1/90	Core Composite 4	1.36	1.45E+03	ug/g	I	PRIMARY	B110 Core Data	U	1.97E+06	
A103	U				8.04E-03	moles/L	S		HTCE Inv.	U	1.91E+06	
SX112	U				7.96E-03	moles/L	S		HTCE Inv.	U	1.89E+06	
SX-11	Uranium				2.09E+04	g/mol	S		TRAC	U	1.89E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 8		1.18E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.89E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 5	1.28	1.46E+03	ug/g	I	DUPLICATE	B110 Core Data	U	1.87E+06	
A103	U	4/3/86			1.85E+00	g/L	K	Saltcake	Wastren	U	1.85E+06	
A103	Uranium	4/3/86	B2XCOOXX	1.35	1370	ugm/gm	G	Sludge/Composite	Braun	U	1.85E+06	
A103	U	3/3/87	B2xcxxxx R-12	1.35	1.37E+03	ug/g	I	Composite Composite	RAW	U	1.85E+06	
TX-108	Uranium				1.96E+03	g/mol	S		TRAC	U	1.83E+06	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Uranium	4/1/90	CORE 9 SEGMENT 1	1.23	1.49E+03	ug/g	I		B110 Core Data	U	1.83E+06	
C102	U	7/10/86	E1XCOOXX	1.351	1350	ugm/gm	G	Sludge/Composite	Braun	U	1.82E+06	
B110	Uranium	4/1/90	CORE 9 SEGMENT 1	1.23	1.44E+03	ug/g	I		B110 Core Data	U	1.77E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 4	1.28	1.37E+03	ug/g	I	DUPLICATE	B110 Core Data	U	1.75E+06	
U110	U	11/10/89	89-045		1080	ugm/gm	G	Sludge	Braun	U	1.73E+06	
B110	Uranium	4/1/90	CORE 2 SEGMENT 4	1.28	1.35E+03	ug/g	I	PRIMARY	B110 Core Data	U	1.72E+06	
c109	Uranium	9/1/92	B08T17	1.2	1.43E+03	ug/g	S	DUPLICATE RESULT	TCD	U	1.72E+06	
BX112	U	6/11/79	RAT-BX112-1	1.22	0.0014	gm/gm	G	Sludge	Braun	U	1.71E+06	
BX-11	Uranium				1.26E+03	g/mol	S		TRAC	U	1.65E+06	
U110	Uranium	12/1/89	Core 12 Segment 3	1	1.63E+03	ug/g	I	DUPLICATE	U110 Core Data	U	1.63E+06	
B-105	Uranium				2.39E+03	g/mol	S		TRAC	U	1.52E+06	
C106	U	4/1/90	1		9.44E+02	mg/kg	S		RAW	U	1.51E+06	
U110	Uranium (ug/g)	12/1/89	Core Composite 8		9.26E+02	ug/g	I	PRIMARY	U110 Core Data	U	1.48E+06	
U110	U	11/17/89	89-050		926	ugm/gm	G	Sludge/Composite	Braun	U	1.48E+06	
T104	U	1/26/93	T104-C45-C2		901	ugm/gm	G	Sludge/Composite	Braun	U	1.44E+06	
S-102	Uranium				4.20E+03	g/mol	S		TRAC	U	1.43E+06	
T104	U	1/26/93	T104-C45-C1		880	ugm/gm	G	Sludge/Composite	Braun	U	1.41E+06	
c109	Uranium	9/1/92	B08T17	1.2	1.17E+03	ug/g	S	PRIMARY RESULT	TCD	U	1.40E+06	
SX113	U				5.88E-03	moles/L	S		HTCE Inv.	U	1.40E+06	
BX112	U				5.70E-03	moles/L	S		HTCE Inv.	U	1.36E+06	
T-103	Uranium				2.39E+02	g/mol	S		TRAC	U	1.28E+06	
BX-10	Uranium				1.04E+04	g/mol	S		TRAC	U	1.23E+06	
U-111	Uranium				3.51E+03	g/mol	S		TRAC	U	1.23E+06	
BX110	U				5.02E-03	moles/L	S		HTCE Inv.	U	1.20E+06	
C107	U	8/2/77	T-8110-12		1.1	gm/l	G	Sludge	Braun	U	1.10E+06	
SX-11	Uranium				4.83E+03	g/mol	S		TRAC	U	1.08E+06	
b201	Uranium	8/1/91	B08RP3	1.2	8.75E+02	ug/g	S	DUPLICATE RESULT	TCD	U	1.05E+06	
b201	Uranium	8/1/91	B08RP3	1.2	8.56E+02	ug/g	S	DUPLICATE RESULT	TCD	U	1.03E+06	
b201	Uranium	8/1/91	B08RP3	1.2	8.41E+02	ug/g	S	PRIMARY RESULT	TCD	U	1.01E+06	
SX107	U				4.16E-03	moles/L	S		HTCE Inv.	U	9.89E+05	
SX108	U				4.10E-03	moles/L	S		HTCE Inv.	U	9.75E+05	
t102	Uranium	3/1/93	B0B732	1.32	7.34E+02	ug/g	S	PRIMARY RESULT	TCD	U	9.69E+05	
C106	U	5/19/86		1.22	9.58E+02	mg/L	I	Composite	RAW	U	9.58E+05	
c112	Uranium	3/1/92	B08DY1	2	4.76E+02	ug/g	S	PRIMARY RESULT	TCD	U	9.53E+05	
B202	U	12/31/91			9.14E-01	g/L	G	Sludge	Wastren	U	9.14E+05	
B110	Uranium	4/1/90	CORE 2 SEGMENT 1	1.24	7.36E+02	ug/g	I	PRIMARY	B110 Core Data	U	9.13E+05	
T-111	Uranium				7.68E+03	g/mol	S		TRAC	U	9.10E+05	
t102	Uranium	3/1/93	B0B732	1.32	6.80E+02	ug/g	S	DUPLICATE RESULT	TCD	U	8.98E+05	
c112	Uranium	3/1/92	B08DY1	2	4.44E+02	ug/g	S	DUPLICATE RESULT	TCD	U	8.88E+05	
SX-10	Uranium				1.23E+03	g/mol	S		TRAC	U	8.58E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Uranium	4/1/90	CORE 2 SEGMENT 1	1.24	6.85E+02	ug/g	I	DUPLICATE	B110 Core Data	U	8.49E+05	
B-104	Uranium				4.05E+03	g/mol	S		TRAC	U	8.26E+05	
B110	Uranium	4/1/90	CORE 1 SEGMENT 2	1.3	6.00E+02	ug/g	I	DUPLICATE	B110 Core Data	U	7.80E+05	
C105	U				3.26E-03	moles/L	S		HTCE Inv.	U	7.76E+05	
BY-102	Uranium				5.33E+03	g/mol	S		TRAC	U	7.57E+05	
S104	U				2.93E-03	moles/L	S		HTCE Inv.	U	6.98E+05	
S-105	Uranium				1.63E+03	g/mol	S		TRAC	U	6.82E+05	
BY-109	Uranium				4.12E+03	g/mol	S		TRAC	U	6.72E+05	
B203	U	1/7/83			6.30E-01	g/L	G	Sludge	Wastren	U	6.30E+05	
B-111	Uranium				5.41E+03	g/mol	S		TRAC	U	6.22E+05	
BX-10	Uranium				5.53E+02	g/mol	S		TRAC	U	6.19E+05	
BX110	U	2/14/79	1010-C	1.44	0.000427	gm/gm	G	Sludge	Braun	U	6.15E+05	
B110	Uranium	4/1/90	CORE 1 SEGMENT 2	1.3	4.70E+02	ug/g	I	PRIMARY	B110 Core Data	U	6.11E+05	
C106	U	4/17/87	G1xcxxxR-1	1.43	4.09E+02	ug/g	I	Composite	RAW	U	5.85E+05	
C106	U	5/19/86	G1XCOOXX	1.43	409	ugm/gm	G	Sludge/Composite	Braun	U	5.85E+05	
B203	U	1/7/83	RAT-B203-1		0.00036	gm/gm	G	Sludge	Braun	U	5.76E+05	
TY103	U	9/18/80	RAT-TY103-1	1.5	0.0003676	gm/gm	G	Sludge	Braun	U	5.51E+05	
TY-102	Uranium				8.40E+01	g/mol	S		TRAC	U	5.27E+05	
B110	Uranium	4/1/90	CORE 2 SEGMENT 2	1.24	3.96E+02	ug/g	I	PRIMARY	B110 Core Data	U	4.91E+05	
B110	Uranium	4/1/90	Core Composite 2	1.33	3.61E+02	ug/g	I	DUPLICATE	B110 Core Data	U	4.81E+05	
B110	Uranium	4/1/90	CORE 2 SEGMENT 2	1.24	3.86E+02	ug/g	I	DUPLICATE	B110 Core Data	U	4.78E+05	
B110	Uranium	4/1/90	Core Composite 3	1.36	3.42E+02	ug/g	I	PRIMARY	B110 Core Data	U	4.65E+05	
C102	U	2/1/91	1		4.30E+02	ug/mL	S	water leach	RAW	U	4.30E+05	
B110	Uranium	4/1/90	Core Composite 1	1.36	3.02E+02	ug/g	I	PRIMARY	B110 Core Data	U	4.10E+05	
U-112	Uranium				8.63E+02	g/mol	S		TRAC	U	4.04E+05	
BY-101	Uranium				6.55E+02	g/mol	S		TRAC	U	3.95E+05	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.77E+02	ug/g	I	PRIMARY	B110 Core Data	U	3.68E+05	
B110	Uranium	4/1/90	Core Composite 10	1.34	2.72E+02	ug/g	I	DUPLICATE	B110 Core Data	U	3.64E+05	
C102	U	2/1/91	2		3.56E+02	ug/mL	S	water leach	RAW	U	3.56E+05	
T-110	Uranium				2.89E+03	g/mol	S		TRAC	U	3.42E+05	
B110	Uranium	4/1/90	Core Composite 1	1.36	2.51E+02	ug/g	I	DUPLICATE	B110 Core Data	U	3.41E+05	
B110	Uranium	4/1/90	Core Composite 10	1.34	2.52E+02	ug/g	I	PRIMARY	B110 Core Data	U	3.38E+05	
B111	U	4/15/93	93-4312H1		207	ugm/gm	G	Sludge	Braun	U	3.31E+05	
TY102	U	9/9/85			3.31E-01	g/L	K	Saltcake	Wastren	U	3.31E+05	
TY102	U	1/30/86	41XCXXXX	1.88	1.76E+02	ug/g	I	Core composite	RAW	U	3.31E+05	
TY102	U	9/9/85	41XCOOOO	1.88	176	ugm/gm	G	Sludge/Composite	Braun	U	3.31E+05	
TY102	U	1/30/86	41XCXXXX	1.88	1.25E+00	g/gal	I	Core composite	RAW	U	3.31E+05	
B110	Uranium	4/1/90	Core Composite 1	1.36	2.40E+02	ug/g	I	DUPLICATE	B110 Core Data	U	3.26E+05	
B110	Uranium	4/1/90	Core Composite 1	1.36	2.36E+02	ug/g	I	PRIMARY	B110 Core Data	U	3.21E+05	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.32E+02	ug/g	I	DUPLICATE	B110 Core Data	U	3.09E+05	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information													
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Uranium	4/1/90	Core Composite 2	1.33	2.27E+02	ug/g	I	PRIMARY	B110 Core Data	U	3.02E+05		
B111	U	4/15/93	93-4316H1		188	ugm/gm	G	Sludge	Braun	U	3.01E+05		
B110	Uranium	4/1/90	CORE 1 SEGMENT 3	1.3	2.30E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.99E+05		
B110	Uranium	4/1/90	Core Composite 4	1.36	2.17E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.95E+05		
B110	Uranium	4/1/90	CORE 1 SEGMENT 3	1.3	2.20E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.86E+05		
TY106	U	12/20/79	RAT-TY106-1	1.54	0.0001853	gm/gm	G	Sludge	Braun	U	2.85E+05		
U105	U	12/4/78			2.73E-01	g/L	K	Saltcake	Wastren	U	2.73E+05		
U105	U	12/4/78	RAT-U105-3	1.62	0.0001685	gm/gm	A	Salts	Braun	U	2.73E+05		
B110	Uranium	4/1/90	Core Composite 4	1.36	2.00E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.72E+05		
A106	U	1/5/88	A2xcxxxx R-20	1.54	1.67E+02	ug/g	I	Composite Composite	RAW	U	2.57E+05		
A106	Uranium	3/13/86	A2XCOOXX	1.54	167	ugm/gm	G	Sludge/Composite	Braun	U	2.57E+05		
A106	U	3/13/86			2.57E-01	g/L	G	Sludge	Wastren	U	2.57E+05		
B110	Uranium	4/1/90	Core Composite 3	1.36	1.80E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.45E+05		
S-106	Uranium				1.81E+02	g/mol	S		TRAC	U	2.42E+05		
B110	Uranium	4/1/90	Core Composite 9	1.32	1.82E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.40E+05		
B110	Uranium	4/1/90	Core Composite 3	1.36	1.75E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.38E+05		
B110	Uranium	4/1/90	Core Composite 9	1.32	1.76E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.32E+05		
BY-112	Uranium				6.60E+02	g/mol	S		TRAC	U	2.30E+05		
B110	Uranium	4/1/90	CORE 3 SEGMENT 3	1.3	1.73E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.24E+05		
B110	Uranium	4/1/90	CORE 10 SEGMENT 3	1.17	1.85E+02	ug/g	I		B110 Core Data	U	2.16E+05		
B110	Uranium	4/1/90	CORE 3 SEGMENT 3	1.3	1.63E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.12E+05		
B110	Uranium	4/1/90	Core Composite 4	1.36	1.51E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.06E+05		
B110	Uranium	4/1/90	CORE 2 SEGMENT 3	1.29	1.58E+02	ug/g	I	PRIMARY	B110 Core Data	U	2.03E+05		
B110	Uranium	4/1/90	Core Composite 18	1.37	1.48E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.03E+05		
B110	Uranium	4/1/90	CORE 10 SEGMENT 3	1.17	1.73E+02	ug/g	I		B110 Core Data	U	2.02E+05		
B110	Uranium	4/1/90	Core Composite 10	1.34	1.49E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.00E+05		
B110	Uranium	4/1/90	CORE 2 SEGMENT 3	1.29	1.55E+02	ug/g	I	DUPLICATE	B110 Core Data	U	2.00E+05		
B110	Uranium	4/1/90	Core Composite 18	1.37	1.36E+02	ug/g	I	PRIMARY	B110 Core Data	U	1.86E+05		
B110	Uranium	4/1/90	Core Composite 18	1.37	1.31E+02	ug/g	I	PRIMARY	B110 Core Data	U	1.79E+05		
B110	Uranium	4/1/90	Core Composite 10	1.34	1.25E+02	ug/g	I	PRIMARY	B110 Core Data	U	1.67E+05		
SX-10	Uranium				2.21E+03	g/mol	S		TRAC	U	1.63E+05		
B110	Uranium	4/1/90	CORE 18 SEGMENT 3	1.31	1.08E+02	ug/g	I		B110 Core Data	U	1.41E+05		
B110	Uranium	4/1/90	CORE 18 SEGMENT 3	1.31	1.04E+02	ug/g	I		B110 Core Data	U	1.36E+05		
B110	Uranium	4/1/90	Core Composite 4	1.36	9.87E+01	ug/g	I	PRIMARY	B110 Core Data	U	1.34E+05		
U112	U				5.53E-04	moles/L	S		HTCE Inv.	U	1.32E+05		
B110	Uranium	4/1/90	Core Composite 18	1.37	9.07E+01	ug/g	I	DUPLICATE	B110 Core Data	U	1.24E+05		
B110	Uranium	4/1/90	Core Composite 9	1.32	8.71E+01	ug/g	I	DUPLICATE	B110 Core Data	U	1.15E+05		
BX107	U	9/18/80	RAT-BX107-2	1.422	8.045E-05	gm/gm	G	Sludge	Braun	U	1.14E+05		
C102	U	2/1/91	1		1.10E+02	ug/mL	S	5X Dil	RAW	U	1.10E+05		
C102	U	2/1/91	1		1.09E+02	ug/mL	S	25x Dil	RAW	U	1.09E+05		

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WCH-SD-WM-ER-400, Rev. 0

ICF KH
4/20/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
T104	U	11/13/79	RAT-T104-1	1.31	7.664E-05	gm/gm	G	Sludge	Braun	U	1.00E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
T104	U	9/18/80	RAT-T104-2	1.307	0.000074	gm/gm	G	Sludge	Braun	U	9.67E+04	
T104	U	9/18/80			9.67E-02	g/L	G	Sludge	Wastren	U	9.67E+04	
C102	U	2/1/91	2		9.20E+01	ug/mL	S	5X Dil	RAW	U	9.20E+04	
C102	U	2/1/91	2		9.00E+01	ug/mL	S	25x Dil	RAW	U	9.00E+04	
B110	Uranium	4/1/90	Core Composite 9	1.32	6.47E+01	ug/g	I	PRIMARY	B110 Core Data	U	8.54E+04	
SX106	U	4/18/78	8301	1.37	0.0000618	gm/gm	S	Supernate/Solids	Braun	U	8.47E+04	
SX106	U	4/18/78	8301	1.33	0.0000618	gm/gm	S	Supernate/Solids	Braun	U	8.22E+04	
A104	U				3.44E-04	moles/L	S		HTCE Inv.	U	8.19E+04	
C201	U	12/4/78	T-3421	1.16	6.641E-05	gm/gm	G	Sludge	Braun	U	7.70E+04	
U110	Uranium	12/1/89	Core 14 Segment 1	1.5	4.77E+01	ug/g	I	DUPLICATE	U110 Core Data	U	7.16E+04	
S111	U	9/18/80			7.04E-02	g/L	G	Sludge	Wastren	U	7.04E+04	
B110	Uranium	4/1/90	CORE 10 SEGMENT 5	1.36	5.15E+01	ug/g	I		B110 Core Data	U	7.00E+04	
U110	Uranium	12/1/89	Core 7 Segment 1	1.78	3.86E+01	ug/g	I	DUPLICATE	U110 Core Data	U	6.87E+04	
BX110	U	9/18/80	RAT-BX110-1	1.45	4.738E-05	gm/gm	G	Sludge	Braun	U	6.87E+04	
BX-10	Uranium				5.77E+02	g/mol	S		TRAC	U	6.84E+04	
B110	Uranium	4/1/90	CORE 9 SEGMENT 5	1.24	5.45E+01	ug/g	I		B110 Core Data	U	6.76E+04	
B110	Uranium	4/1/90	CORE 10 SEGMENT 5	1.36	4.87E+01	ug/g	I		B110 Core Data	U	6.62E+04	
U110	Uranium	12/1/89	Core 14 Segment 1	1.5	4.40E+01	ug/g	I	PRIMARY	U110 Core Data	U	6.60E+04	
S111	U	9/18/80	RAT-S111-5		0.0000402	gm/gm	S	Solids	Braun	U	6.43E+04	
B110	Uranium	4/1/90	CORE 3 SEGMENT 5	1.3	4.79E+01	ug/g	I	PRIMARY	B110 Core Data	U	6.23E+04	
B110	Uranium	4/1/90	CORE 9 SEGMENT 5	1.24	4.86E+01	ug/g	I		B110 Core Data	U	6.03E+04	
B110	Uranium	4/1/90	CORE 2 SEGMENT 4	1.28	4.65E+01	ug/g	I	PRIMARY	B110 Core Data	U	5.95E+04	
B110	Uranium	4/1/90	CORE 18 SEGMENT 5	1.21	4.85E+01	ug/g	I		B110 Core Data	U	5.87E+04	
B110	Uranium	4/1/90	CORE 1 SEGMENT 4	1.3	4.50E+01	ug/g	I	PRIMARY	B110 Core Data	U	5.85E+04	
B110	Uranium	4/1/90	CORE 18 SEGMENT 5	1.21	4.80E+01	ug/g	I		B110 Core Data	U	5.80E+04	
B110	Uranium	4/1/90	CORE 2 SEGMENT 4	1.28	4.45E+01	ug/g	I	DUPLICATE	B110 Core Data	U	5.69E+04	
U110	Uranium	12/1/89	Core 7 Segment 1	1.78	3.19E+01	ug/g	I	PRIMARY	U110 Core Data	U	5.68E+04	
TY102	U	2/1/80	RAT-TY102-1	1.51	3.713E-05	gm/gm	A	Salts	Braun	U	5.61E+04	
B110	Uranium	4/1/90	CORE 1 SEGMENT 4	1.3	4.30E+01	ug/g	I	DUPLICATE	B110 Core Data	U	5.59E+04	
B110	Uranium	4/1/90	CORE 3 SEGMENT 5	1.3	4.12E+01	ug/g	I	DUPLICATE	B110 Core Data	U	5.36E+04	
S111	U	8/25/78	1003/1004-C	1.86	0.0000283	gm/gm	S	Solids	Braun	U	5.26E+04	
U110	U	11/15/89	89-046		31.9	ugm/gm	G	Sludge	Braun	U	5.10E+04	
B110	Uranium	4/1/90	CORE 1 SEGMENT 5	1.3	3.60E+01	ug/g	I	DUPLICATE	B110 Core Data	U	4.68E+04	
B110	Uranium	4/1/90	CORE 1 SEGMENT 5	1.3	3.50E+01	ug/g	I	PRIMARY	B110 Core Data	U	4.55E+04	
C107	U	9/26/77	T-510-32		0.045	gm/l	G	Sludge	Braun	U	4.50E+04	
BX-10	Uranium				5.26E+02	g/mol	S		TRAC	U	4.31E+04	
C104	U	8/23/77	9172-A		0.033	gm/l	G	Sludge	Braun	U	3.30E+04	
S-109	Uranium				3.26E+02	g/mol	S		TRAC	U	3.14E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
S111	U	8/25/78	1001-C	1.27	0.0000247	gm/gm	S	Solids	Braun	U	3.14E+04	
BX-10	Uranium				4.79E+02	g/mol	S		TRAC	U	2.79E+04	
S-103	Uranium				3.18E+02	g/mol	S		TRAC	U	2.76E+04	
C107	U	8/2/77	T-8110-13		0.027	gm/l	G	Sludge	Braun	U	2.70E+04	
TY103	U	10/1/79		1.5	1.66E-03	wt %	K	saltcake	RAW	U	2.49E+04	
B201	U	12/4/78	1898	1.37	0.0000179	gm/gm	G	Sludge	Braun	U	2.45E+04	
B201	U	12/4/78			2.45E-02	g/L	G	Sludge	Wastren	U	2.45E+04	
TY104	U	8/6/85	261SXXXX	1.48	1.48E+01	ug/g	I	core composite	RAW	U	2.19E+04	
TY105	U	9/18/85		1.53	1.41E+01	ug/g	I	core composite	RAW	U	2.16E+04	
B203	U	12/4/78	2782	1.09	1.708E-05	gm/gm	G	Sludge	Braun	U	1.86E+04	
A105	U	1/12/72	RAT-A105-2	1.43	0.000012	gm/gm	Y	Slurry	Braun	U	1.72E+04	
C104	U	8/23/77	9172-B		0.017	gm/l	G	Sludge	Braun	U	1.70E+04	
B110	Uranium	4/1/90	Core Composite 3	1.36	1.22E+01	ug/g	I	DUPLICATE	B110 Core Data	U	1.66E+04	
U103	U	12/4/78			1.38E-02	g/L	G	Sludge	Wastren	U	1.38E+04	
U103	U	12/4/78	3064	1.4	9.83E-06	gm/gm	S	Solids	Braun	U	1.38E+04	
B202	U	12/4/78	2509	1.25	0.0000109	gm/gm	G	Sludge	Braun	U	1.36E+04	
SX-10	Uranium				1.86E+02	g/mol	S		TRAC	U	1.15E+04	
B204	U	12/4/78	1974	1.14	9.756E-06	gm/gm	G	Sludge	Braun	U	1.11E+04	
B204	U	12/4/78			1.11E-02	g/L	G	Sludge	Wastren	U	1.11E+04	
A106	U	10/5/77	JS-31	1.51	0.011	gm/l	G	Sludge	Braun	U	1.10E+04	
C107	U	8/2/77	T-8110-14		0.011	gm/l	G	Sludge	Braun	U	1.10E+04	
SX105	U	2/1/77			9.40E-03	g/L	K	Saltcake	Wastren	U	9.40E+03	
SX105	U	2/1/77	RAT-SX105-2	1.06	0.0094	gm/l	A	Salts	Braun	U	9.40E+03	
S-112	Uranium				1.95E+02	g/mol	S		TRAC	U	8.81E+03	
t104	Uranium	8/26/92	B08S16	1.03	8.37E+00	ug/mL	S	DUPLICATE RESULT	TCD	U	8.37E+03	
U105	U	3/14/77	RAT-U105-2	1.72	0.00808	gm/l	G	Sludge	Braun	U	8.08E+03	
t104	Uranium	8/26/92	B08S16	1.03	8.03E+00	ug/mL	S	PRIMARY RESULT	TCD	U	8.03E+03	
TY101	U	9/18/80		1.707	4.31E-04	wt %	G	sludge	RAW	U	7.36E+03	
TX118	U	3/31/77		1.26	7.14E-03	g/l	S		RAW	U	7.14E+03	
TX118	U	2/3/77	RAT-TX118-1	1.26	0.00714	gm/l	S	Solids	Braun	U	7.14E+03	
TX118	U	1/28/80	RAT-TX118-1	1.341	0.00714	gm/l	S	Solids	Braun	U	7.14E+03	
C107	U	9/26/77	T-510-33		0.0067	gm/l	G	Sludge	Braun	U	6.70E+03	
SX104	U	2/14/77	RAT-SX104-2	1.39	0.00652	gm/l	A	Salts	Braun	U	6.52E+03	
S111	U	8/25/78	1009-C	1.46	3.51E-06	gm/gm	S	Solids	Braun	U	5.12E+03	
S111	U	8/25/78	1009-C	1.44	3.51E-06	gm/gm	S	Solids	Braun	U	5.05E+03	
TY103	U	10/10/80		1.5	3.33E-04	wt %	K	saltcake	RAW	U	5.00E+03	
AX10	U	9/15/77			4.25E-03	g/L	G	Sludge	Wastren	U	4.25E+03	
AX10	U	9/15/77	JS-25		0.00425	gm/l	G	Sludge	Braun	U	4.25E+03	
T104	U	9/18/80			2.64E-06	g/g	I		RAW	U	4.22E+03	
SX101	U	12/4/78	4523	1.76	2.306E-06	gm/gm	A	Salts	Braun	U	4.06E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
C106	U	1/24/77	RAT-C106-3	2.44	0.004	gm/l	G	Sludge	Braun	U	4.00E+03	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.96E+00	ug/g	I	PRIMARY	B110 Core Data	U	3.94E+03	
SX101	U	12/4/78	4523	1.52	2.306E-06	gm/gm	A	Salts	Braun	U	3.51E+03	
B110	Uranium	4/1/90	Core Composite 2	1.33	2.15E+00	ug/g	I	DUPLICATE	B110 Core Data	U	2.86E+03	
B110	Uranium	4/1/90	Core Composite 10	1.34	2.02E+00	ug/g	I	PRIMARY	B110 Core Data	U	2.71E+03	
C106	U	7/1/77	5		1.64E+00	mg/kg	S		RAW	U	2.62E+03	
t104	Uranium	8/26/92	B08RX7	1.15	2.40E+00	ug/mL	S	DUPLICATE RESULT	TCD	U	2.40E+03	
C107	U	9/26/77	T-510-23		0.0024	gm/l	G	Sludge	Braun	U	2.40E+03	
C110	U	8/31/77	T-9501-34		0.0021	gm/l	G	Sludge	Braun	U	2.10E+03	
t104	Uranium	8/26/92	B08RX7	1.15	2.07E+00	ug/mL	S	PRIMARY RESULT	TCD	U	2.07E+03	
A106	U	10/5/77	JS-30	1.51	0.002	gm/l	G	Sludge	Braun	U	2.00E+03	
SX106	U	2/28/77	RAT-SX106-2	1.45	0.00194	gm/l	G	Sludge	Braun	U	1.94E+03	
SX106	U	2/28/77	RAT-SX106-2	1.58	0.00194	gm/l	G	Sludge	Braun	U	1.94E+03	
SX106	U	2/28/77	RAT-SX106-2	1.6	0.00194	gm/l	G	Sludge	Braun	U	1.94E+03	
B110	Uranium	4/1/90	Core Composite 10	1.34	1.43E+00	ug/g	I	DUPLICATE	B110 Core Data	U	1.92E+03	
C107	U	8/2/77	T-8110-9		0.00162	gm/l	G	Sludge	Braun	U	1.62E+03	
B110	Uranium	4/1/90	Core Composite 3	1.36	1.00E+00	ug/g	I	DUPLICATE	B110 Core Data	U	1.36E+03	
U204	U	12/4/78			1.35E-03	g/L	G	Sludge	Wastren	U	1.35E+03	
U204	U	12/4/78	RAT-U204-1	1.31	1.029E-06	gm/gm	S	Solids	Braun	U	1.35E+03	
C204	U	12/4/78	T-1914	1.07	1.21E-06	gm/gm	G	Sludge	Braun	U	1.29E+03	
T204	U	12/4/78	1914	1.07	1.208E-06	gm/gm	G	Sludge	Braun	U	1.29E+03	
B110	Uranium	4/1/90	Core Composite 3	1.36	9.50E-01	ug/g	I	PRIMARY	B110 Core Data	U	1.29E+03	
B110	Uranium	4/1/90	Core Composite 1	1.36	8.90E-01	ug/g	I	PRIMARY	B110 Core Data	U	1.21E+03	
U105	U	10/6/77	968		0.0012	gm/l	S	Solids	Braun	U	1.20E+03	
B110	Uranium	4/1/90	Core Composite 1	1.36	8.80E-01	ug/g	I	DUPLICATE	B110 Core Data	U	1.20E+03	
U103	U	8/15/77	8793		0.0011	gm/l	A	Salts	Braun	U	1.10E+03	
B110	Uranium	4/1/90	Core Composite 9	1.32	7.70E-01	ug/g	I	PRIMARY	B110 Core Data	U	1.02E+03	
B110	Uranium	4/1/90	Core Composite 18	1.37	6.30E-01	ug/g	I	PRIMARY	B110 Core Data	U	8.63E+02	
B110	Uranium	4/1/90	Core Composite 18	1.37	6.00E-01	ug/g	I	DUPLICATE	B110 Core Data	U	8.22E+02	
B110	Uranium	4/1/90	Core Composite 4	1.36	5.30E-01	ug/g	I	PRIMARY	B110 Core Data	U	7.21E+02	
B110	Uranium	4/1/90	Core Composite 4	1.36	5.00E-01	ug/g	I	DUPLICATE	B110 Core Data	U	6.80E+02	
C110	U	8/31/77	T-9501-17		0.00057	gm/l	G	Sludge	Braun	U	5.70E+02	
TY102	U	10/1/80		1.51	3.50E-05	wt %	K	saltcake	RAW	U	5.29E+02	
SX103	U	10/10/77			4.70E-04	g/L	G	Sludge	Wastren	U	4.70E+02	
SX103	U	10/10/77	1104	1.5	0.00047	gm/l	S	Solids	Braun	U	4.70E+02	
SX103	U	10/10/77	1104	2	0.00047	gm/l	S	Solids	Braun	U	4.70E+02	
U-107	Uranium				6.23E-03	g/mol	S		TRAC	U	3.91E+02	
SX106	U	2/28/77	RAT-SX106-2	1.45	0.000344	gm/l	S	Supernate/Solids	Braun	U	3.44E+02	
SX106	U	2/28/77	RAT-SX106-2	1.58	0.000344	gm/l	S	Supernate/Solids	Braun	U	3.44E+02	
SX106	U	2/28/77	RAT-SX106-2	1.6	0.000344	gm/l	S	Supernate/Solids	Braun	U	3.44E+02	
B110	Uranium	4/1/90	Core Composite 9	1.32	2.60E-01	ug/g	I	DUPLICATE	B110 Core Data	U	3.43E+02	

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WHC-SD-WM-ER-400, Rev. 0

ICF KH
 11/20/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Single-Shell Tank Solids [Sketch ES-VAL-CC46]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
TX-106	Uranium				3.91E-03	g/mol	S		TRAC	U	1.23E+02	
A-105	Uranium				6.59E-05	g/mol	S		TRAC	U	5.17E+00	
TX-102	Uranium				1.22E-04	g/mol	S		TRAC	U	5.47E-01	
TX-101	Uranium				9.88E-04	g/mol	S		TRAC	U	2.07E-01	
TY101	U	9/18/80		1.493	1.30E-08	wt %	K	saltcake	RAW	U	1.94E-01	
U-201	Uranium				3.10E-05	g/mol	S		TRAC	U	1.13E-01	
U-103	Uranium				6.10E-05	g/mol	S		TRAC	U	3.33E-02	
TX-105	Uranium				1.50E-08	g/mol	S		TRAC	U	2.30E-05	
SY-102	Uranium				3.21E-08	g/mol	S		TRAC	U	2.10E-05	
U-202	Uranium				2.77E-19	g/mol	S		TRAC	U	1.14E-15	
U-203	Uranium				2.57E-19	g/mol	S		TRAC	U	1.11E-15	
T-203	Uranium				0.00E+00	g/mol	S		TRAC	U	0.00E+00	
B-204	Uranium				0.00E+00	g/mol	S		TRAC	U	0.00E+00	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Vanadium Single-Shell Tank Liquids [Sketch ES-VAL-CC47]
ASA Value: 4.05E+03 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
C102	V	4/1/90	RAT-C102-1		90	ugm/gm	U	Unknown	Braun	V	9.90E + 04	2
C105	V	4/1/90	RAT-C105-4A		60	ugm/gm	U	Unknown	Braun	V	6.60E + 04	2
ASA Value: 4.05E + 03 ug/L												
C110	V	11/1/91	2	1.18	4.05E + 00	ug/ml	L	core 39 seg. 3	RAW	V	4.05E + 03	*
c110	Vanadium	4/23/92	B08VH6	1.18	4.05E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	4.05E + 03	*
C110	V	11/1/91	1	1.18	3.99E + 00	ug/ml	L	core 39 seg. 3	RAW	V	3.99E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	3.99E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	3.99E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	3.99E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	3.99E + 03	
c110	Vanadium	4/23/92	B08VM5	1	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VM5	1	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	1.34E + 00	ug/mL	L	PRIMARY RESULT	TCD	V	1.34E + 03	
c110	Vanadium	4/23/92	B08VM5	1	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VM5	1	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VP9	1.1	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
c110	Vanadium	4/23/92	B08VH6	1.18	1.04E + 00	ug/mL	L	DUPLICATE RESULT	TCD	V	1.04E + 03	
C110	V	11/1/91	1	1.1	8.52E-01	ug/ml	L	core 38 seg. 4	RAW	V	8.52E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	8.52E-01	ug/mL	L	PRIMARY RESULT	TCD	V	8.52E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	8.52E-01	ug/mL	L	PRIMARY RESULT	TCD	V	8.52E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	8.52E-01	ug/mL	L	PRIMARY RESULT	TCD	V	8.52E + 02	
C110	V	11/1/91	2	1.1	7.96E-01	ug/ml	L	core 38 seg. 4	RAW	V	7.96E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	7.96E-01	ug/mL	L	DUPLICATE RESULT	TCD	V	7.96E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	7.96E-01	ug/mL	L	DUPLICATE RESULT	TCD	V	7.96E + 02	
c110	Vanadium	4/23/92	B08VP9	1.1	7.96E-01	ug/mL	L	DUPLICATE RESULT	TCD	V	7.96E + 02	
C110	V	11/1/91	1	1	4.00E-01	ug/ml	L	core 37 seg. 3	RAW	V	4.00E + 02	
C110	V	11/1/91	2	1	4.00E-01	ug/ml	L	core 37 seg. 3	RAW	V	4.00E + 02	
c110	Vanadium	4/23/92	B08VM5	1	4.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	V	4.00E + 02	
c110	Vanadium	4/23/92	B08VM5	1	4.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	V	4.00E + 02	
c110	Vanadium	4/23/92	B08VM5	1	4.00E-01	ug/mL	L	PRIMARY RESULT	TCD	V	4.00E + 02	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Liquids [Sketch ES-VAL-CC47]
 ASA Value: 4.05E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
c110	Vanadium	4/23/92	B08VM5	1	4.00E-01	ug/mL	L	PRIMARY RESULT	TCD	V	4.00E+02	
Minimum Plot Limit: 1.00E+01 ug/L												

WHC-SD-WM-ER-400, Rev. 0

ICF KH
4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
B110	Vanadium	4/1/90	Core Composite 18	1.37	3.46E+02	ug/g	I	PRIMARY	B110 Core Data	V	4.74E+05	31
U110	V	12/15/89	89-070/1/2		269	ugm/gm	G	Sludge/Composite	Braun	V	4.30E+05	20
U110	Vanadium	12/1/89	Core 12 Segment 2	1.77	2.42E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	4.28E+05	20
U110	Vanadium	12/1/89	Core 12 Segment 2	1.77	2.31E+02	ug/g	I	PRIMARY	U110 Core Dat	V	4.09E+05	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	2.69E+02	ug/g	I	PRIMARY	U110 Core Dat	V	3.82E+05	20
U110	V	11/29/89	89-070		231	ugm/gm	G	Sludge	Braun	V	3.70E+05	20
U110	V	11/30/89	89-075		193	ugm/gm	G	Sludge	Braun	V	3.09E+05	20
U110	Vanadium	12/1/89	Core Composite 7	1.675	1.78E+02	ug/g	I	PRIMARY	U110 Core Dat	V	2.98E+05	20
U110	Vanadium	12/1/89	Core Composite 13	1.3	2.27E+02	ug/g	I	PRIMARY	U110 Core Dat	V	2.95E+05	20
U110	Vanadium	12/1/89	Core Composite 8		1.84E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.94E+05	20
U110	V	11/15/89	89-046/7/8/9		178	ugm/gm	G	Sludge/Composite	Braun	V	2.85E+05	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	1.64E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.53E+05	20
U110	Vanadium	12/1/89	Core Composite 15	1.29	1.94E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.50E+05	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	1.66E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.36E+05	20
U110	Vanadium	12/1/89	Core Composite 13	1.3	1.81E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.35E+05	20
U110	Vanadium	12/1/89	Core Composite 8		1.44E+02	ug/g	I	PRIMARY	U110 Core Dat	V	2.30E+05	20
U110	Vanadium	12/1/89	Core 7 Segment 1	1.78	1.29E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.30E+05	20
U110	Vanadium	12/1/89	Core 13 Segment 3	1.14	1.93E+02	ug/g	I	PRIMARY	U110 Core Dat	V	2.20E+05	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	1.37E+02	ug/g	I	PRIMARY	U110 Core Dat	V	2.11E+05	20
U110	Vanadium	12/1/89	Core 13 Segment 3	1.14	1.85E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	2.11E+05	20
U110	Vanadium	12/1/89	Core Composite 14	1.48	1.32E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	1.95E+05	20
U110	Vanadium	12/1/89	Core Composite 14	1.48	1.29E+02	ug/g	I	PRIMARY	U110 Core Dat	V	1.91E+05	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	1.22E+02	ug/g	I	PRIMARY	U110 Core Dat	V	1.87E+05	20
U110	Vanadium	12/1/89	Core Composite 7	1.675	1.09E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	1.83E+05	20
U110	Vanadium	12/1/89	Core Composite 15	1.29	1.35E+02	ug/g	I	PRIMARY	U110 Core Dat	V	1.74E+05	20
U110	Vanadium	12/1/89	Core Composite 5	1.04	1.64E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	1.71E+05	20
U110	V	11/29/89	89-072		100	ugm/gm	G	Sludge	Braun	V	1.60E+05	20
U110	Vanadium	12/1/89	Core Composite 5	1.04	1.53E+02	ug/g	I	PRIMARY	U110 Core Dat	V	1.59E+05	20
U110	Vanadium	12/1/89	Core 12 Segment 4	1.48	1.00E+02	ug/g	I	PRIMARY	U110 Core Dat	V	1.48E+05	20
U110	V	11/10/89	89-043		92	ugm/gm	G	Sludge	Braun	V	1.47E+05	20
U110	Vanadium	12/1/89	Core 6 Segment 2	1.59	9.20E+01	ug/g	I	PRIMARY	U110 Core Dat	V	1.46E+05	20
C102	V	2/1/91			9.00E+01	mg/kg	S	KOH Fusion	RAW	V	1.44E+05	2
U110	Vanadium	12/1/89	Core 15 Segment 3	1.3	1.04E+02	ug/g	I	DUPLICATE	U110 Core Dat	V	1.35E+05	20
c112	Vanadium	3/1/92	B08DN8	1.6	8.37E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.34E+05	31
Preliminary ASA Value: 1.34E+05 ug/L												
U110	Vanadium	12/1/89	Core 7 Segment 1	1.78	6.90E+01	ug/g	I	PRIMARY	U110 Core Dat	V	1.23E+05	20
c112	Vanadium	3/1/92	B08DN8	1.6	7.56E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.21E+05	20
U110	V	12/4/89	89-083		74	ugm/gm	G	Sludge	Braun	V	1.18E+05	20

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
B110	Vanadium	4/1/90	Core Composite 9	1.32	8.96E+01	ug/g	I	PRIMARY	B110 Core Data	V	1.18E+05	31
U110	Vanadium	12/1/89	Core 15 Segment 4	1.31	8.80E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	1.15E+05	20
U110	V	11/15/89	89-046		69	ugm/gm	G	Sludge	Braun	V	1.10E+05	20
U110	Vanadium	12/1/89	Core Composite 7	1.675	6.27E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	1.05E+05	20
C105	V	4/1/90			1.05E-01	g/L	G	Sludge	Wastren	V	1.05E+05	2
B110	Vanadium	4/1/90	Core Composite 9	1.32	7.71E+01	ug/g	I	DUPLICATE	B110 Core Data	V	1.02E+05	31
U110	Vanadium	12/1/89	Core 15 Segment 3	1.3	7.40E+01	ug/g	I	PRIMARY	U110 Core Dat	V	9.62E+04	20
C105	V	2/1/91			6.00E+01	mg/kg	S	KOH Fusion	RAW	V	9.60E+04	2
U110	Vanadium	12/1/89	Core Composite 15	1.29	7.11E+01	ug/g	I	PRIMARY	U110 Core Dat	V	9.17E+04	20
U110	Vanadium	12/1/89	Core Composite 5	1.04	8.78E+01	ug/g	I	PRIMARY	U110 Core Dat	V	9.13E+04	20
B110	Vanadium	4/1/90	Core Composite 18	1.37	6.64E+01	ug/g	I	DUPLICATE	B110 Core Data	V	9.09E+04	31
U110	V	12/4/89	89-084		56	ugm/gm	G	Sludge	Braun	V	8.96E+04	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	6.14E+01	ug/g	I	PRIMARY	U110 Core Dat	V	8.72E+04	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	6.00E+01	ug/g	I	PRIMARY	U110 Core Dat	V	8.52E+04	20
U110	Vanadium	12/1/89	Core 15 Segment 2	1.27	6.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	8.51E+04	20
U110	Vanadium	12/1/89	Core 12 Segment 4	1.48	5.20E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	7.70E+04	20
U110	Vanadium	12/1/89	Core Composite 14	1.48	5.13E+01	ug/g	I	PRIMARY	U110 Core Dat	V	7.60E+04	20
U110	V	11/15/89	89-048		47	ugm/gm	G	Sludge	Braun	V	7.52E+04	20
U110	Vanadium	12/1/89	Core Composite 5	1.04	7.23E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	7.52E+04	20
U110	Vanadium	12/1/89	Core 15 Segment 4	1.31	5.60E+01	ug/g	I	PRIMARY	U110 Core Dat	V	7.34E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 4	1.93	3.80E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	7.33E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 3	1.53	4.70E+01	ug/g	I	PRIMARY	U110 Core Dat	V	7.19E+04	20
U110	Vanadium	12/1/89	Core 6 Segment 4	1.8	3.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	7.02E+04	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	4.54E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.99E+04	20
U110	Vanadium	12/1/89	Core Composite 7	1.675	4.10E+01	ug/g	I	PRIMARY	U110 Core Dat	V	6.87E+04	20
U110	Vanadium	12/1/89	Core 14 Segment 2	1.39	4.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.81E+04	20
B110	Vanadium	4/1/90	Core Composite 1	1.36	4.87E+01	ug/g	I	DUPLICATE	B110 Core Data	V	6.62E+04	31
U110	Vanadium	12/1/89	Core Composite 7	1.675	3.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.53E+04	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	4.60E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.53E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 3	1.53	4.20E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.43E+04	20
U110	Vanadium	12/1/89	Core 6 Segment 2	1.59	4.00E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.36E+04	20
B110	Vanadium	4/1/90	Core Composite 1	1.36	4.62E+01	ug/g	I	PRIMARY	B110 Core Data	V	6.29E+04	31
U110	Vanadium	12/1/89	Core Composite 15	1.29	4.80E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.19E+04	20
U110	Vanadium	12/1/89	Core 14 Segment 1	1.5	4.10E+01	ug/g	I	PRIMARY	U110 Core Dat	V	6.15E+04	20
U110	Vanadium	12/1/89	Core 14 Segment 1	1.5	4.10E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.15E+04	20
U110	Vanadium	12/1/89	Core Composite 8		3.80E+01	ug/g	I	PRIMARY	U110 Core Dat	V	6.08E+04	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	3.90E+01	ug/g	I	PRIMARY	U110 Core Dat	V	6.01E+04	20
U110	Vanadium	12/1/89	Core Composite 6	1.54	3.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	6.01E+04	20

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ICF KH
4/18/95

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte Information		ID
						Unit				Analyte	ug/L	
U110	Vanadium	12/1/89	Core 14 Segment 4	1.62	3.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.99E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 4	1.93	3.10E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.98E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.95E+01	ug/g	S	PRIMARY RESULT	TCD	V	5.90E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 2	1.46	4.00E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.84E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.92E+01	ug/g	S	DUPLICATE RESULT	TCD	V	5.84E+04	20
U110	Vanadium	12/1/89	Core 7 Segment 2	1.46	3.90E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.69E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.79E+01	ug/g	S	DUPLICATE RESULT	TCD	V	5.58E+04	20
U110	Vanadium	12/1/89	Core Composite 12	1.42	3.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.54E+04	20
U110	Vanadium	12/1/89	Core Composite 14	1.48	3.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.48E+04	20
U110	Vanadium	12/1/89	Core 13 Segment 4	1.46	3.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.40E+04	20
U110	Vanadium	12/1/89	Core 6 Segment 4	1.8	3.00E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.40E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.68E+01	ug/g	S	PRIMARY RESULT	TCD	V	5.36E+04	20
U110	Vanadium	12/1/89	Core Composite 7	1.675	3.19E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.34E+04	20
U110	Vanadium	12/1/89	Core Composite 13	1.3	4.10E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.33E+04	20
U110	Vanadium	12/1/89	Core Composite 8		3.30E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.28E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.63E+01	ug/g	S	PRIMARY RESULT	TCD	V	5.26E+04	20
U110	Vanadium	12/1/89	Core 14 Segment 4	1.62	3.20E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.18E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.59E+01	ug/g	S	PRIMARY RESULT	TCD	V	5.18E+04	20
U110	Vanadium	12/1/89	Core 13 Segment 4	1.46	3.50E+01	ug/g	I	PRIMARY	U110 Core Dat	V	5.11E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.55E+01	ug/g	S	DUPLICATE RESULT	TCD	V	5.10E+04	20
B110	Vanadium	4/1/90	Core Composite 4	1.36	3.73E+01	ug/g	I	PRIMARY	B110 Core Data	V	5.07E+04	31
U110	Vanadium	12/1/89	Core Composite 13	1.3	3.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.07E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.51E+01	ug/g	S	DUPLICATE RESULT	TCD	V	5.02E+04	20
U110	Vanadium	12/1/89	Core 6 Segment 3	1.22	4.10E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	5.00E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.50E+01	ug/g	S	PRIMARY RESULT	TCD	V	5.00E+04	20
U110	Vanadium	12/1/89	Core 15 Segment 2	1.27	3.90E+01	ug/g	I	PRIMARY	U110 Core Dat	V	4.95E+04	20
B110	Vanadium	4/1/90	CORE 4 SEGMENT 3	1.3	3.79E+01	ug/g	I	DUPLICATE	B110 Core Data	V	4.92E+04	31
U110	Vanadium	12/1/89	Core 6 Segment 3	1.22	4.00E+01	ug/g	I	PRIMARY	U110 Core Dat	V	4.88E+04	20
b202	Vanadium	6/7/91	B08SP5	0.87	5.60E+01	mg/kg	S	PRIMARY RESULT	TCD	V	4.87E+04	15
U110	Vanadium	12/1/89	Core Composite 15	1.29	3.70E+01	ug/g	I	PRIMARY	U110 Core Dat	V	4.77E+04	20
U110	Vanadium	12/1/89	Core Composite 15	1.29	3.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	4.77E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.37E+01	ug/g	S	DUPLICATE RESULT	TCD	V	4.74E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.34E+01	ug/g	S	DUPLICATE RESULT	TCD	V	4.68E+04	20
c112	Vanadium	3/1/92	B08DY1	2	2.33E+01	ug/g	S	PRIMARY RESULT	TCD	V	4.66E+04	20
U110	Vanadium	12/1/89	Core Composite 5	1.04	4.20E+01	ug/g	I	PRIMARY	U110 Core Dat	V	4.37E+04	20
U110	V	12/3/89	89-078		27	ugm/gm	G	Sludge	Braun	V	4.32E+04	20
B110	Vanadium	4/1/90	Core Composite 1	1.36	3.16E+01	ug/g	I	PRIMARY	B110 Core Data	V	4.30E+04	31
C102	V	2/1/91	2		2.50E+01	mg/kg	S	Total	RAW	V	4.00E+04	2

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]

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ASA Value: 3.27E+04 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
C102	V	2/1/91	2		2.50E+01	mg/kg	S	water leach	RAW	V	4.00E+04
b202	Vanadium	6/7/91	B08SP5	0.87	4.56E+01	mg/kg	S	PRIMARY RESULT	TCD	V	3.97E+04
U110	Vanadium	12/1/89	Core 14 Segment 2	1.39	2.70E+01	ug/g	I	PRIMARY	U110 Core Dat	V	3.75E+04
U110	Vanadium	12/1/89	Core Composite 5	1.04	3.60E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	3.74E+04
U110	Vanadium	12/1/89	Core 12 Segment 3	1	3.70E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	3.70E+04
b202	Vanadium	6/7/91	B08SP5	0.87	4.16E+01	mg/kg	S	PRIMARY RESULT	TCD	V	3.62E+04
b202	Vanadium	6/7/91	B08SP5	0.87	4.06E+01	mg/kg	S	PRIMARY RESULT	TCD	V	3.53E+04
b202	Vanadium	6/7/91	B08SP5	0.87	4.06E+01	mg/kg	S	PRIMARY RESULT	TCD	V	3.53E+04
U110	Vanadium	12/1/89	Core 12 Segment 3	1	3.50E+01	ug/g	I	PRIMARY	U110 Core Dat	V	3.50E+04
b202	Vanadium	6/7/91	B08SP5	0.87	4.01E+01	mg/kg	S	DUPLICATE RESULT	TCD	V	3.49E+04
c112	Vanadium	3/1/92	B08DM7	1.6	2.08E+01	ug/g	S	PRIMARY RESULT	TCD	V	3.33E+04
B110	Vanadium	4/1/90	Core Composite 3	1.36	2.44E+01	ug/g	I	PRIMARY	B110 Core Data	V	3.32E+04
B110	Vanadium	4/1/90	Core Composite 1	1.36	2.43E+01	ug/g	I	DUPLICATE	B110 Core Data	V	3.31E+04

ASA Value: 3.27E+04 ug/L

t111	Vanadium	11/1/91	B08ST7	0.93	3.52E+01	ug/g	S	PRIMARY RESULT	TCD	V	3.27E+04
C102	V	2/1/91	1		2.00E+01	mg/kg	S	Total	RAW	V	3.20E+04
C102	V	2/1/91	1		2.00E+01	mg/kg	S	water leach	RAW	V	3.20E+04
B110	Vanadium	4/1/90	CORE 4 SEGMENT 2	1.3	2.42E+01	ug/g	I	DUPLICATE	B110 Core Data	V	3.15E+04
B110	Vanadium	4/1/90	Core Composite 2	1.33	2.35E+01	ug/g	I	PRIMARY	B110 Core Data	V	3.12E+04
c112	Vanadium	3/1/92	B08DM7	1.6	1.95E+01	ug/g	S	PRIMARY RESULT	TCD	V	3.12E+04
B110	Vanadium	4/1/90	CORE 4 SEGMENT 5	1.3	2.38E+01	ug/g	I		B110 Core Data	V	3.09E+04
B110	Vanadium	4/1/90	Core Composite 3	1.36	2.20E+01	ug/g	I	DUPLICATE	B110 Core Data	V	2.99E+04
B110	Vanadium	4/1/90	Core Composite 4	1.36	2.19E+01	ug/g	I	DUPLICATE	B110 Core Data	V	2.98E+04
BX107	V	10/20/92	J924-AV		18.29615	ugm/gm	G	Sludge/Composite	Braun	V	2.93E+04
B110	Vanadium	4/1/90	CORE 4 SEGMENT 4	1.3	2.24E+01	ug/g	I		B110 Core Data	V	2.92E+04
c112	Vanadium	3/1/92	B08DM7	1.6	1.77E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.83E+04
U110	Vanadium	12/1/89	Core 14 Segment 3	1.4	2.00E+01	ug/g	I	PRIMARY	U110 Core Dat	V	2.80E+04
t111	Vanadium	11/1/91	B08ST7	0.93	3.00E+01	ug/g	S	PRIMARY RESULT	TCD	V	2.79E+04
T111	V	8/7/92	J-402	0.93	30	ugm/gm	G	Sludge	Braun	V	2.79E+04
t111	Vanadium	11/1/91	B08ST7	0.93	2.95E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.74E+04
U110	Vanadium	12/1/89	Core Composite 13	1.3	2.10E+01	ug/g	I	PRIMARY	U110 Core Dat	V	2.73E+04
t111	Vanadium	11/1/91	B08ST7	0.93	2.88E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.68E+04
U110	Vanadium	12/1/89	Core 14 Segment 3	1.4	1.90E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	2.66E+04
c112	Vanadium	3/1/92	B08DM7	1.6	1.66E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.66E+04
c112	Vanadium	3/1/92	B08DM7	1.6	1.66E+01	ug/g	S	PRIMARY RESULT	TCD	V	2.66E+04
B110	Vanadium	4/1/90	Core Composite 10	1.34	1.96E+01	ug/g	I	DUPLICATE	B110 Core Data	V	2.62E+04
U110	Vanadium	12/1/89	Core Composite 13	1.3	2.00E+01	ug/g	I	DUPLICATE	U110 Core Dat	V	2.60E+04
c112	Vanadium	3/1/92	B08DM7	1.6	1.61E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.58E+04

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c112	Vanadium	3/1/92	B08DM7	1.6	1.60E+01	ug/g	S	DUPLICATE RESULT	TCD	V	2.56E+04	
T111	V	8/7/92	J-470		15.3	ugm/gm	G	Sludge/Composite	Braun	V	2.45E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	2.44E+01	mg/kg	S	DUPLICATE RESULT	TCD	V	2.39E+04	
B110	Vanadium	4/1/90	Core Composite 4	1.36	1.75E+01	ug/g	I	DUPLICATE	B110 Core Data	V	2.39E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	1.48E+01	ug/g	S	PRIMARY RESULT	TCD	V	2.37E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	2.23E+01	mg/kg	S	PRIMARY RESULT	TCD	V	2.19E+04	
t111	Vanadium	11/1/91	B08ST9	1.11	1.88E+01	ug/g	S	PRIMARY RESULT	TCD	V	2.09E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	2.10E+01	mg/kg	S	PRIMARY RESULT	TCD	V	2.06E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	2.05E+01	mg/kg	S	PRIMARY RESULT	TCD	V	2.01E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	2.05E+01	mg/kg	S	PRIMARY RESULT	TCD	V	2.01E+04	
T111	V	8/7/92	J-466		12.1	ugm/gm	G	Sludge/Composite	Braun	V	1.94E+04	
C106	V	7/22/88			1.20E+01	mg/kg	G	Sludge	RAW	V	1.92E+04	
C106	V	7/22/88			1.20E+01	mg/kg	G	Sludge	RAW	V	1.92E+04	
c112	Vanadium	3/1/92	B08DN6	1.3	1.36E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.77E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	1.08E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.73E+04	
BX107	V	10/20/92	J925-AV		10.4502	ugm/gm	G	Sludge/Composite	Braun	V	1.67E+04	
c112	Vanadium	3/1/92	B08DN6	1.3	1.28E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.66E+04	
c112	Vanadium	3/1/92	B08DN6	1.3	1.27E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.65E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 4	1.3	1.25E+01	ug/g	I		B110 Core Data	V	1.62E+04	
c112	Vanadium	3/1/92	B08DN6	1.3	1.22E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.59E+04	
b202	Vanadium	6/7/91	B08SM2	1.02	1.54E+01	mg/kg	S	PRIMARY RESULT	TCD	V	1.57E+04	
t111	Vanadium	11/1/91	B08ST5	0.88	1.71E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.50E+04	
t111	Vanadium	11/1/91	B08ST5	0.88	1.71E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.50E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	9.20E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.47E+04	
t111	Vanadium	11/1/91	B08ST5	0.88	1.67E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.47E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	9.00E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.44E+04	
b202	Vanadium	6/7/91	B08SM2	1.02	1.41E+01	mg/kg	S	PRIMARY RESULT	TCD	V	1.44E+04	
B110	Vanadium	4/1/90	Core Composite 18	1.37	1.03E+01	ug/g	I	PRIMARY	B110 Core Data	V	1.42E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 2	1.3	1.08E+01	ug/g	I	PRIMARY	B110 Core Data	V	1.40E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 2	1.3	1.08E+01	ug/g	I	DUPLICATE	B110 Core Data	V	1.40E+04	
B110	Vanadium	4/1/90	Core Composite 18	1.37	1.02E+01	ug/g	I	DUPLICATE	B110 Core Data	V	1.39E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	8.70E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.39E+04	
t111	Vanadium	11/1/91	B08ST9	1.11	1.23E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.37E+04	
c112	Vanadium	3/1/92	B08DN8	1.6	8.50E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.36E+04	
c112	Vanadium	3/1/92	B08DM7	1.6	8.30E+00	ug/g	S	PRIMARY RESULT	TCD	V	1.33E+04	
t111	Vanadium	11/1/91	B08ST9	1.11	1.19E+01	ug/g	S	DUPLICATE RESULT	TCD	V	1.32E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 3	1.3	1.01E+01	ug/g	I	PRIMARY	B110 Core Data	V	1.31E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 3	1.3	1.01E+01	ug/g	I	DUPLICATE	B110 Core Data	V	1.31E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
B110	Vanadium	4/1/90	Core Composite 10	1.34	9.78E+00	ug/g	I	PRIMARY	B110 Core Data	V	1.31E+04	
B110	Vanadium	4/1/90	Core Composite 10	1.34	9.78E+00	ug/g	I	PRIMARY	B110 Core Data	V	1.31E+04	
B110	Vanadium	4/1/90	Core Composite 10	1.34	9.78E+00	ug/g	I	DUPLICATE	B110 Core Data	V	1.31E+04	
B110	Vanadium	4/1/90	CORE 4 SEGMENT 4	1.3	9.98E+00	ug/g	I		B110 Core Data	V	1.30E+04	
t111	Vanadium	11/1/91	B08ST5	0.88	1.47E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.29E+04	
T111	V	8/7/92	J-398	0.88	14.7	ugm/gm	G	Sludge	Braun	V	1.29E+04	
c112	Vanadium	3/1/92	B08DN8	1.6	8.00E+00	ug/g	S	PRIMARY RESULT	TCD	V	1.28E+04	
BX107	V	10/20/92	J926-AV		7.8139	ugm/gm	G	Sludge/Composite	Braun	V	1.25E+04	
B110	Vanadium	4/1/90	Core Composite 2	1.33	9.39E+00	ug/g	I	PRIMARY	B110 Core Data	V	1.25E+04	
B110	Vanadium	4/1/90	Core Composite 2	1.33	9.39E+00	ug/g	I	DUPLICATE	B110 Core Data	V	1.25E+04	
b202	Vanadium	6/7/91	B08SM2	1.02	1.18E+01	mg/kg	S	PRIMARY RESULT	TCD	V	1.20E+04	
T111	V	8/7/92	J-404	1.11	10.3	ugm/gm	G	Sludge	Braun	V	1.14E+04	
t111	Vanadium	11/1/91	B08ST9	1.11	1.03E+01	ug/g	S	PRIMARY RESULT	TCD	V	1.14E+04	
b202	Vanadium	6/7/91	B08SP6	0.98	1.11E+01	mg/kg	S	PRIMARY RESULT	TCD	V	1.09E+04	
B110	Vanadium	4/1/90	Core Composite 1	1.36	7.30E+00	ug/g	I	PRIMARY	B110 Core Data	V	9.93E+03	
B110	Vanadium	4/1/90	Core Composite 1	1.36	7.30E+00	ug/g	I	DUPLICATE	B110 Core Data	V	9.93E+03	
B110	Vanadium	4/1/90	CORE 10 SEGMENT 5	1.36	7.08E+00	ug/g	I		B110 Core Data	V	9.62E+03	
B110	Vanadium	4/1/90	CORE 10 SEGMENT 5	1.36	7.08E+00	ug/g	I		B110 Core Data	V	9.62E+03	
B110	Vanadium	4/1/90	Core Composite 2	1.33	7.04E+00	ug/g	I	DUPLICATE	B110 Core Data	V	9.36E+03	
B110	Vanadium	4/1/90	CORE 10 SEGMENT 3	1.17	7.38E+00	ug/g	I		B110 Core Data	V	8.63E+03	
B110	Vanadium	4/1/90	CORE 10 SEGMENT 3	1.17	7.38E+00	ug/g	I		B110 Core Data	V	8.63E+03	
B110	Vanadium	4/1/90	Core Composite 9	1.32	4.98E+00	ug/g	I	PRIMARY	B110 Core Data	V	6.57E+03	
B110	Vanadium	4/1/90	Core Composite 9	1.32	4.98E+00	ug/g	I	DUPLICATE	B110 Core Data	V	6.57E+03	
B110	Vanadium	4/1/90	CORE 9 SEGMENT 1	1.23	5.06E+00	ug/g	I		B110 Core Data	V	6.23E+03	
B110	Vanadium	4/1/90	CORE 9 SEGMENT 1	1.23	5.06E+00	ug/g	I		B110 Core Data	V	6.23E+03	
B110	Vanadium	4/1/90	CORE 3 SEGMENT 3	1.3	4.77E+00	ug/g	I	PRIMARY	B110 Core Data	V	6.20E+03	
bx107	Vanadium	6/1/92	B08SD6	0.996	5.99E+00	ug/g	S	PRIMARY RESULT	TCD	V	5.97E+03	
B110	Vanadium	4/1/90	Core Composite 4	1.36	4.39E+00	ug/g	I	PRIMARY	B110 Core Data	V	5.97E+03	
B110	Vanadium	4/1/90	CORE 9 SEGMENT 5	1.24	4.73E+00	ug/g	I		B110 Core Data	V	5.86E+03	
B110	Vanadium	4/1/90	CORE 9 SEGMENT 5	1.24	4.73E+00	ug/g	I		B110 Core Data	V	5.86E+03	
bx107	Vanadium	6/1/92	B08SD6	0.996	5.88E+00	ug/g	S	PRIMARY RESULT	TCD	V	5.85E+03	
T111	V	8/7/92	J-408	1.09	5.3	ugm/gm	G	Sludge	Braun	V	5.78E+03	
t111	Vanadium	11/1/91	B08SV7	1.09	5.25E+00	ug/g	S	PRIMARY RESULT	TCD	V	5.72E+03	
bx107	Vanadium	6/1/92	B08SD6	0.996	5.49E+00	ug/g	S	DUPLICATE RESULT	TCD	V	5.47E+03	
t111	Vanadium	11/1/91	B08SV7	1.09	4.97E+00	ug/g	S	DUPLICATE RESULT	TCD	V	5.42E+03	
c112	Vanadium	3/1/92	B08DY1	2	2.70E+00	ug/g	S	DUPLICATE RESULT	TCD	V	5.40E+03	
c112	Vanadium	3/1/92	B08DY1	2	2.50E+00	ug/g	S	PRIMARY RESULT	TCD	V	5.00E+03	
c109	Vanadium	9/1/92	B08T17	1.2	4.00E+00	ug/g	S	DUPLICATE RESULT	TCD	V	4.80E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
c109	Vanadium	9/1/92	B08T17	1.2	4.00E+00	ug/g	S	DUPLICATE RESULT	TCD	V	4.80E+03	
c109	Vanadium	9/1/92	B08T17	1.2	4.00E+00	ug/g	S	PRIMARY RESULT	TCD	V	4.80E+03	
t111	Vanadium	11/1/91	B08SV7	1.09	4.39E+00	ug/g	S	PRIMARY RESULT	TCD	V	4.79E+03	
bx107	Vanadium	6/1/92	B08SD6	0.996	4.64E+00	ug/g	S	DUPLICATE RESULT	TCD	V	4.62E+03	
C102	V	2/1/91	2		2.80E+00	mg/kg	S	water leach	RAW	V	4.48E+03	
t111	Vanadium	11/1/91	B08SV7	1.09	4.11E+00	ug/g	S	DUPLICATE RESULT	TCD	V	4.48E+03	
b202	Vanadium	6/7/91	B08SM2	1.02	4.23E+00	mg/kg	S	DUPLICATE RESULT	TCD	V	4.31E+03	
c109	Vanadium	9/1/92	B08T16	1.3	3.00E+00	ug/g	S	PRIMARY RESULT	TCD	V	3.90E+03	
C102	V	2/1/91	1		2.30E+00	mg/kg	S	water leach	RAW	V	3.68E+03	
c109	Vanadium	9/1/92	B08T17	1.2	3.00E+00	ug/g	S	PRIMARY RESULT	TCD	V	3.60E+03	
b202	Vanadium	6/7/91	B08SM2	1.02	3.40E+00	mg/kg	S	PRIMARY RESULT	TCD	V	3.46E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	3.50E+00	mg/kg	S	PRIMARY RESULT	TCD	V	3.43E+03	
B110	Vanadium	4/1/90	Core Composite 3	1.36	2.44E+00	ug/g	I	PRIMARY	B110 Core Data	V	3.32E+03	
B110	Vanadium	4/1/90	Core Composite 3	1.36	2.44E+00	ug/g	I	DUPLICATE	B110 Core Data	V	3.32E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.40E+00	mg/kg	S	PRIMARY RESULT	TCD	V	3.24E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.40E+00	mg/kg	S	PRIMARY RESULT	TCD	V	3.24E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.36E+00	mg/kg	S	DUPLICATE RESULT	TCD	V	3.18E+03	
B110	Vanadium	4/1/90	Core Composite 2	1.33	2.35E+00	ug/g	I	DUPLICATE	B110 Core Data	V	3.12E+03	
B110	Vanadium	4/1/90	CORE 3 SEGMENT 3	1.3	2.38E+00	ug/g	I	DUPLICATE	B110 Core Data	V	3.10E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.23E+00	mg/kg	S	PRIMARY RESULT	TCD	V	3.01E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.20E+00	mg/kg	S	PRIMARY RESULT	TCD	V	2.97E+03	
b202	Vanadium	6/7/91	B08SM4	1.35	2.10E+00	mg/kg	S	PRIMARY RESULT	TCD	V	2.84E+03	
c109	Vanadium	9/1/92	B08T16	1.3	2.00E+00	ug/g	S	DUPLICATE RESULT	TCD	V	2.60E+03	
c109	Vanadium	9/1/92	B08T16	1.3	2.00E+00	ug/g	S	DUPLICATE RESULT	TCD	V	2.60E+03	
c109	Vanadium	9/1/92	B08T16	1.3	2.00E+00	ug/g	S	PRIMARY RESULT	TCD	V	2.60E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	2.36E+00	mg/kg	S	DUPLICATE RESULT	TCD	V	2.34E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	2.23E+00	mg/kg	S	PRIMARY RESULT	TCD	V	2.21E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	2.10E+00	mg/kg	S	PRIMARY RESULT	TCD	V	2.06E+03	
b202	Vanadium	6/7/91	B08SK0	0.93	1.90E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.77E+03	
t111	Vanadium	11/1/91	B08SQ9	1.13	1.52E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.72E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	1.70E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.68E+03	
b202	Vanadium	6/7/91	B08SM2	1.02	1.60E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.63E+03	
t111	Vanadium	11/1/91	B08SQ9	1.13	1.38E+00	ug/g	S	PRIMARY RESULT	TCD	V	1.56E+03	
T111	V	8/7/92	J-414	1.13	1.38	ugm/gm	G	Sludge	Braun	V	1.56E+03	
t111	Vanadium	11/1/91	B08SX5	1.06	1.42E+00	ug/g	S	DUPLICATE RESULT	TCD	V	1.51E+03	
b202	Vanadium	6/7/91	B08SK0	0.93	1.60E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.49E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	1.50E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.49E+03	
b202	Vanadium	6/7/91	B08SK0	0.93	1.60E+00	mg/kg	S	PRIMARY RESULT	TCD	V	1.48E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Single-Shell Tank Solids [Sketch ES-VAL-CC48]
 ASA Value: 3.27E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Unit	Code	Sample State	Source	Analyte	ug/L	ID
b202	Vanadium	6/7/91	B08SK0	0.93	1.54E+00	mg/kg	S	DUPLICATE RESULT	TCD		V	1.43E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	1.40E+00	mg/kg	S	PRIMARY RESULT	TCD		V	1.39E+03	
t111	Vanadium	11/1/91	B08SX5	1.06	1.30E+00	ug/g	S	PRIMARY RESULT	TCD		V	1.38E+03	
T111	V	8/7/92	J-410	1.06	1.3	ugm/gm	G	Sludge	Braun		V	1.38E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	1.40E+00	mg/kg	S	DUPLICATE RESULT	TCD		V	1.37E+03	
B110	Vanadium	4/1/90	Core Composite 18	1.37	9.61E-01	ug/g	I	DUPLICATE	B110 Core Data		V	1.32E+03	
BX107	V	10/20/92	J924-AV		0.8152	ugm/gm	G	Sludge/Composite	Braun		V	1.30E+03	
BX107	V	10/20/92	J926-AV		0.8152	ugm/gm	G	Sludge/Composite	Braun		V	1.30E+03	
b202	Vanadium	6/7/91	B08SK0	0.93	1.40E+00	mg/kg	S	PRIMARY RESULT	TCD		V	1.30E+03	
t111	Vanadium	11/1/91	B08SX5	1.06	1.09E+00	ug/g	S	PRIMARY RESULT	TCD		V	1.16E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	1.13E+00	mg/kg	S	PRIMARY RESULT	TCD		V	1.11E+03	
t111	Vanadium	11/1/91	B08SX5	1.06	1.04E+00	ug/g	S	DUPLICATE RESULT	TCD		V	1.10E+03	
b202	Vanadium	6/7/91	B0BC06	0.99	1.10E+00	mg/kg	S	PRIMARY RESULT	TCD		V	1.09E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	1.10E+00	mg/kg	S	PRIMARY RESULT	TCD		V	1.08E+03	
b202	Vanadium	6/7/91	B08SP8	0.98	8.00E-01	mg/kg	S	PRIMARY RESULT	TCD		V	7.84E+02	
b202	Vanadium	6/7/91	B08SK0	0.93	8.00E-01	mg/kg	S	PRIMARY RESULT	TCD		V	7.44E+02	
B110	Vanadium	4/1/90	Core Composite 18	1.37	1.25E-01	ug/g	I	PRIMARY	B110 Core Data		V	1.71E+02	
C102	V	2/1/91	2		1.40E-01	ug/mL	S	water leach	RAW		V	1.40E+02	
C102	V	2/1/91	1		1.16E-01	ug/mL	S	water leach	RAW		V	1.16E+02	
Minimum Plot Limit: 1.00E+02 ug/L													

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Double-Shell Tank Liquids [Sketch ES-VAL-CC49]
 ASA Value: 8.71E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
SY102	As	2/22/91			1.74E+01	ppm	P	9M	RAW	As	1.91E+04	32
SY102	As	2/22/91			1.25E+01	ppm	P	12M	RAW	As	1.38E+04	32
SY102	As	2/22/91			1.01E+01	ppm	P	6M	RAW	As	1.11E+04	32
ASA Value: 8.71E+03 ug/L												
AW103	As	1/23/90			8.71E-03	g/L	P	Supernatant	Wastren	As	8.71E+03	*
AW103	As	1/23/90	RAT-AW103-1B		0.0000067	gm/gm	P	Supernate	Braun	As	7.37E+03	
SY102	As	2/22/91			6.62E+00	ppm	P	3M	RAW	As	7.28E+03	
AZ101	As	5/1/89		1.24	7.70E-02	umol/g	P	Core 2	RAW	As	7.15E+03	
AZ101	As	May 89			7.04E-03	g/L	P	Supernatant	Wastren	As	7.04E+03	
AZ101	As	9/1/90	RAT-AZ101-5A	1.22	0.077	umol/gm	P	Supernate	Braun	As	7.04E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	4.14E+00	PPM	L	PRIMARY RESULT	TCD	As	4.53E+03	
AZ102	As	8/1/89			4.42E-03	g/L	P	Supernatant	Wastren	As	4.42E+03	
AZ102	As	8/1/89			5.00E-02	umol/g	P		RAW	As	4.12E+03	
AZ102	As	10/1/90			5.00E-02	umol/g	P		RAW	As	4.12E+03	
AZ102	As	9/1/93			5.00E-02	umol/g	P		RAW	As	4.12E+03	
AZ102	As	7/13/88	T-1520		2.80E+00	ppm	L		RAW	As	3.08E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.62E+00	PPM	L	PRIMARY RESULT	TCD	As	2.87E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.61E+00	PPM	L	PRIMARY RESULT	TCD	As	2.86E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.59E+00	PPM	L	PRIMARY RESULT	TCD	As	2.83E+03	
AW106	Arsenic	12/1/93	B08VS6	1.094	2.54E+00	PPM	L	DUPLICATE RESULT	TCD	As	2.78E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.49E+00	PPM	L	PRIMARY RESULT	TCD	As	2.72E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.41E+00	PPM	L	PRIMARY RESULT	TCD	As	2.64E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.37E+00	PPM	L	PRIMARY RESULT	TCD	As	2.59E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.37E+00	PPM	L	PRIMARY RESULT	TCD	As	2.59E+03	
AW106	Arsenic	12/1/93	B08VS6	1.094	2.35E+00	PPM	L	DUPLICATE RESULT	TCD	As	2.57E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.35E+00	PPM	L	PRIMARY RESULT	TCD	As	2.57E+03	
aw106	Arsenic	12/1/93	B08VS6	1.094	2.33E+00	PPM	L	PRIMARY RESULT	TCD	As	2.55E+03	
SY102	As	11/1/88		1.02	3.00E-05	M	L	1 + 2 Liquid	RAW	As	2.25E+03	
SY102	As	1/4/89	R-4331	1.02	2.15E+00	ppm	L		RAW	As	2.19E+03	
aw102	Arsenic	12/1/93	B0BC12	1.03	1.61E+00	PPM	L	PRIMARY RESULT	TCD	As	1.66E+03	
aw102	Arsenic	12/1/93	B0BC12	1.03	1.56E+00	PPM	L	PRIMARY RESULT	TCD	As	1.61E+03	
aw102	Arsenic	12/1/93	B0BC12	1.03	1.45E+00	PPM	L	PRIMARY RESULT	TCD	As	1.49E+03	
aw102	Arsenic	12/1/93	B0BC12	1.03	1.45E+00	PPM	L	PRIMARY RESULT	TCD	As	1.49E+03	
AW102	Arsenic	12/1/93	B0BC12	1.03	1.36E+00	PPM	L	DUPLICATE RESULT	TCD	As	1.40E+03	
AP105	Arsenic	3/1/93	B0B3D1	1.334	1.04E+00	ug/mL	L	PRIMARY RESULT	TCD	As	1.04E+03	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Arsenic Double-Shell Tank Liquids [Sketch ES-VAL-CC49]
ASA Value: 8.71E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Arsenic	3/1/93	BOB3D1	1.334	1.02E+00	ug/mL	L	DUPLICATE RESULT	TCD	As	1.02E+03	
AP105	Arsenic	3/1/93	BOB3D2	1.329	8.44E-01	ug/mL	L	PRIMARY RESULT	TCD	As	8.44E+02	
Minimum Plot Limit: 1.00E+03 ug/L												
AP105	Arsenic	3/1/93	BOB3D2	1.329	7.30E-01	ug/mL	L	DUPLICATE RESULT	TCD	As	7.30E+02	
SY102	As	1/4/89	R-4332	1.18	2.15E-01	ppm	L		RAW	As	2.54E+02	
AP106	Arsenic	3/1/93	BOB2G2	0.997	2.50E-01	ug/mL	L	DUPLICATE RESULT	TCD	As	2.50E+02	
AP106	Arsenic	3/1/93	BOB2G2	0.997	2.50E-01	ug/mL	L	PRIMARY RESULT	TCD	As	2.50E+02	
SY102	As	11/1/88		1.18	3.00E-06	M	L	3 + Upper 4	RAW	As	2.25E+02	
AP103	Arsenic	11/1/91	BOBC21	1	8.40E-02	PPM	L	PRIMARY RESULT	TCD	As	8.40E+01	
AP103	Arsenic	11/1/91	BOBC21	1	6.10E-02	PPM	L	PRIMARY RESULT	TCD	As	6.10E+01	
AP103	Arsenic	11/1/91	BOBC21	1	5.60E-02	PPM	L	DUPLICATE RESULT	TCD	As	5.60E+01	
AP103	Arsenic	11/1/91	BOBC21	1	5.50E-02	PPM	L	PRIMARY RESULT	TCD	As	5.50E+01	
AP103	Arsenic	11/1/91	BOBC21	1	4.90E-02	PPM	L	PRIMARY RESULT	TCD	As	4.90E+01	
AP103	Arsenic	11/1/91	BOBC21	1	4.80E-02	PPM	L	PRIMARY RESULT	TCD	As	4.80E+01	
AP102	As	2/11/93		0.956764	0.047365	ppm	U		RAW	As	4.53E+01	
AP103	Arsenic	11/1/91	BOBC21	1	4.45E-02	PPM	L	PRIMARY RESULT	TCD	As	4.45E+01	
AP103	Arsenic	11/1/91	BOBC21	1	4.20E-02	PPM	L	PRIMARY RESULT	TCD	As	4.20E+01	
AP103	Arsenic	11/1/91	BOBC21	1	3.60E-02	PPM	L	DUPLICATE RESULT	TCD	As	3.60E+01	
AP103	Arsenic	11/1/91	BOBC21	1	3.50E-02	PPM	L	PRIMARY RESULT	TCD	As	3.50E+01	
AP103	Arsenic	11/1/91	BOBC21	1	3.50E-02	PPM	L	PRIMARY RESULT	TCD	As	3.50E+01	
AP103	Arsenic	11/1/91	BOBC21	1	2.80E-02	PPM	L	PRIMARY RESULT	TCD	As	2.80E+01	
AP104	As	3/1/88			9.71E-06	g/L	P	Supernatant	Wastren	As	9.71E+00	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Arsenic Double-Shell Tank Solids [Sketch ES-VAL-CC50]

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ASA Value: 5.68E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
ASA Value: 5.68E+06 ug/L												
AZ101	As	2/11/91			0.355	wt %	S	Core 3	RAW	As	5.68E+06	*
AW101	As	12/19/91			0.0446	M	I		RAW	As	3.34E+06	
SY102	As	2/22/91			1190	ppm	S	9M	RAW	As	1.90E+06	
SY102	As	2/22/91			512	ppm	S	3M	RAW	As	8.19E+05	
SY102	As	2/22/91			494	ppm	S	12M	RAW	As	7.90E+05	
AZ102	As	9/1/93			5.3	umol/g	S	L2	RAW	As	6.35E+05	
SY102	As	2/22/91			281	ppm	S	6M	RAW	As	4.50E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
AZ101	As	9/1/89		2.04	9.03E-05	mmol/g	S		RAW	As	1.38E+04	
AZ101	As	5/1/89			0.012	umol/g	I	Core 2	RAW	As	1.44E+03	
sy101	Arsenic	12/1/91	BOB282	1.235	0.826	ug/g	S	DUPLICATE RESULT	TCD	As	1.02E+03	
sy101	Arsenic	12/1/91	BOB282	1.235	0.826	ug/g	S	DUPLICATE RESULT	TCD	As	1.02E+03	
sy101	Arsenic	12/1/91	BOB280	1.33	0.766	ug/g	S	DUPLICATE RESULT	TCD	As	1.02E+03	
sy101	Arsenic	12/1/91	BOB282	1.235	0.822	ug/g	S	PRIMARY RESULT	TCD	As	1.02E+03	
sy101	Arsenic	12/1/91	BOB282	1.235	0.822	ug/g	S	PRIMARY RESULT	TCD	As	1.02E+03	
sy101	Arsenic	12/1/91	BOB282	1.235	0.758	ug/g	S	PRIMARY RESULT	TCD	As	9.36E+02	
sy101	Arsenic	12/1/91	BOB282	1.235	0.758	ug/g	S	PRIMARY RESULT	TCD	As	9.36E+02	
AP105	As	5/10/94		1.336	9.09E-01	ug/mL	I		RAW	As	9.09E+02	
sy101	Arsenic	12/1/91	BOB280	1.33	0.627	ug/g	S	PRIMARY RESULT	TCD	As	8.34E+02	
sy101	Arsenic	12/1/91	BOB281	1.244	0.657	ug/g	S	DUPLICATE RESULT	TCD	As	8.17E+02	
sy101	Arsenic	12/1/91	BOB282	1.235	0.622	ug/g	S	DUPLICATE RESULT	TCD	As	7.68E+02	
sy101	Arsenic	12/1/91	BOB282	1.235	0.622	ug/g	S	DUPLICATE RESULT	TCD	As	7.68E+02	
sy101	Arsenic	12/1/91	BOB281	1.244	0.615	ug/g	S	DUPLICATE RESULT	TCD	As	7.65E+02	
sy101	Arsenic	12/1/91	BOB279	1.306	0.582	ug/g	S	DUPLICATE RESULT	TCD	As	7.60E+02	
sy101	Arsenic	12/1/91	BOB279	1.306	0.578	ug/g	S	PRIMARY RESULT	TCD	As	7.55E+02	
sy101	Arsenic	12/1/91	BOB280	1.33	0.534	ug/g	S	DUPLICATE RESULT	TCD	As	7.10E+02	
sy101	Arsenic	12/1/91	BOB280	1.33	0.5	ug/g	S	PRIMARY RESULT	TCD	As	6.65E+02	
sy101	Arsenic	12/1/91	BOB281	1.244	0.527	ug/g	S	PRIMARY RESULT	TCD	As	6.56E+02	
sy101	Arsenic	12/1/91	BOB279	1.306	0.496	ug/g	S	PRIMARY RESULT	TCD	As	6.48E+02	
sy101	Arsenic	12/1/91	BOB281	1.244	0.476	ug/g	S	PRIMARY RESULT	TCD	As	5.92E+02	
sy101	Arsenic	12/1/91	BOB279	1.306	0.424	ug/g	S	DUPLICATE RESULT	TCD	As	5.54E+02	
AP102	Arsenic	4/1/93	BOB2T9	1.2	0.102	ug/mL	S	DUPLICATE RESULT	TCD	As	1.02E+02	
AP102	Arsenic	4/1/93	BOB2T9	1.2	0.102	ug/mL	S	DUPLICATE RESULT	TCD	As	1.02E+02	
AN106	As	2/19/87		1.22	0.1002	mg/L	I		RAW	As	1.00E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Arsenic Double-Shell Tank Solids [Sketch ES-VAL-CC50]
 ASA Value: 5.68E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Arsenic	4/1/93	BOB2T9	1.2	0.0759	ug/mL	S	PRIMARY RESULT	TCD	As	7.59E+01	
AP102	Arsenic	4/1/93	BOB2T9	1.2	0.0759	ug/mL	S	PRIMARY RESULT	TCD	As	7.59E+01	
AN106	As	2/19/87		1.22	0.0446	mg/L	I		RAW	As	4.46E+01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Double-Shell Tank Liquids [Sketch ES-VAL-CC51]

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ASA Value: 3.32E+04 ug/L

Tank Waste Characterization Sample Information												Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID	
AN107	Ba	3/6/85	RAT-AN107-1B		0.0049	moles/l	P	Supernate	Braun	Ba	6.73E+05	33	
AW105	Ba	10/29/85	7625	1.34	3.70E-02	wt%	U		RAW	Ba	4.96E+05	33	
AW105	Ba	10/29/85	7625	1.34	3.61E-03	mol/l	U		RAW	Ba	4.96E+05	33	
AW105	Ba	10/29/85	7627	1.36	1.39E-03	mol/l	U		RAW	Ba	1.91E+05	33	
AW105	Ba	10/29/85	7627	1.36	1.40E-02	wt%	U		RAW	Ba	1.90E+05	33	
AW105	Ba	10/29/85	7628	1.35	1.18E-03	mol/l	U		RAW	Ba	1.62E+05	33	
AW105	Ba	10/29/85	7626	1.34	1.10E-03	mol/l	U		RAW	Ba	1.51E+05	33	
AW105	Ba	10/29/85	7633	1.41	1.03E-03	mol/l	U		RAW	Ba	1.41E+05	33	
AW105	Ba	10/29/85	7628	1.35	1.00E-02	wt%	U		RAW	Ba	1.35E+05	33	
AW105	Ba	10/29/85	7632	1.28	6.50E-04	mol/l	U		RAW	Ba	8.92E+04	33	
ASA Value: 3.32E+04 ug/L													
AN107	Ba	2/28/85	R-3638	1.35	0.000242	moles/l	L	Liquor	Braun	Ba	3.32E+04	*	
AN107	Ba	2/28/85	R3638	1.35	2.42E-04	M	P		RAW	Ba	3.32E+04	*	
AN102	Ba	2/28/85	R-3640	1.39	1.33E-04	M	P		RAW	Ba	1.83E+04		
AN102	Ba	2/28/85			1.72E-02	g/L	P	Supernate	Wastren	Ba	1.72E+04		
Preliminary ASA Value: 1.7E+04 ug/L													
AY102	Ba	7/21/88	PNL12966	1.106	7.20E-05	M	L		RAW	Ba	9.89E+03		
AY101	Ba	2/28/85	R-3641	1.11	5.08E-05	moles/l	P	Supernate	Braun	Ba	6.98E+03		
AY101	Ba	2/28/85	R-3641	1.11E+00	5.08E-05	M	P		RAW	Ba	6.97E+03		
AN107	Ba	2/28/85	R-3637	1.41	5.03E-05	moles/l	P	Supernate	Braun	Ba	6.91E+03		
AN107	Ba	3/6/85	RAT-AN107-1A		5.03E-05	moles/l	P	Supernate	Braun	Ba	6.91E+03		
AN107	Ba	2/28/85	R3637	1.41	5.03E-05	M	P		RAW	Ba	6.91E+03		
AY102	Ba	7/21/88	PNL12966	1.106	3.30E-05	M	L		RAW	Ba	4.53E+03		
AP106	Barium	3/1/93	BOB2B9	0.998	3.83E+03	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.83E+03		
AP106	Barium	3/1/93	BOB2C0	1	3.83E+03	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.83E+03		
AP106	Barium	3/1/93	BOB2B9	0.998	3.83E+03	UG/L	L	PRIMARY RESULT	TCD	Ba	3.83E+03		
AP106	Barium	3/1/93	BOB2C0	1	3.83E+03	UG/L	L	PRIMARY RESULT	TCD	Ba	3.83E+03		
AP105	Barium	3/1/93	BOB3C8	1.327	3.75E+03	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.75E+03		
AP105	Barium	3/1/93	BOB3C8	1.327	3.75E+03	UG/L	L	PRIMARY RESULT	TCD	Ba	3.75E+03		
AW105	Ba	1/1/85	R-4036	0.974	0.00002	moles/l	L	Liquor	Braun	Ba	2.75E+03		
AW105	Ba	6/10/85	R-4036	0.974	2.00E-05	M	L	Clear	RAW	Ba	2.75E+03		
AZ101	Ba	5/1/89		1.24	1.50E-02	umol/g	P	Core 2	RAW	Ba	2.55E+03		
AZ101	Ba	9/1/90	RAT-AZ101-5A	1.22	0.015	umol/gm	P	Supernate	Braun	Ba	2.51E+03		
AP103	Ba	4/6/88			2.46E-03	g/L	P	Supernatant	Wastren	Ba	2.46E+03		
AP103	Ba	4/6/88	RAT-AP103-1		1.79E-05	moles/l	P	Supernate	Braun	Ba	2.46E+03		
AP103	Ba	4/6/88	R-8090		1.79E-05	M	L	No solids	RAW	Ba	2.46E+03		

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Double-Shell Tank Liquids [Sketch ES-VAL-CC51]
ASA Value: 3.32E+04 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
AZ101	Ba	May 89			2.15E-03	g/L	P	Supernatant	Wastren	Ba	2.15E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	DUPLICATE RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	DUPLICATE RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.80E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.97E+03	
AZ101	Ba	9/1/89	RAT-AZ101-4A	1.2	0.00001	mmol/gm	P	Supernate	Braun	Ba	1.65E+03	
AZ101	Ba	9/1/89		1.2	1.00E-05	mmol/g	P		RAW	Ba	1.65E+03	
AY102	Ba	7/21/88	PNL12966	1.106	1.10E-05	M	L		RAW	Ba	1.51E+03	
AY102	Ba	9/30/88			1.10E-05	M	L		RAW	Ba	1.51E+03	
AP105	Barium	3/1/93	B08VX7	1.3	1.48E+03	UG/L	L	PRIMARY RESULT	TCD	Ba	1.48E+03	
AP105	Barium	3/1/93	B08VX7	1.3	1.41E+03	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.41E+03	
aw102	Barium	12/1/93	B0BC12	1.03	1.30E+03	PPB	L	DUPLICATE RESULT	TCD	Ba	1.34E+03	
aw102	Barium	12/1/93	B0BC12	1.03	1.30E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.34E+03	
aw102	Barium	12/1/93	B0BC12	1.03	1.30E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.34E+03	
aw102	Barium	12/1/93	B0BC12	1.03	1.30E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.34E+03	
aw102	Barium	12/1/93	B0BC12	1.03	1.30E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.34E+03	
aw106	Barium	12/1/93	B08VS6	1.094	1.07E+03	PPB	L	PRIMARY RESULT	TCD	Ba	1.17E+03	
AZ102	Ba	Aug 89			8.10E-04	g/L	P	Supernatant	Wastren	Ba	8.10E+02	
AW103	Ba	1/23/90			7.80E-04	g/L	P	Supernatant	Wastren	Ba	7.80E+02	
AP105	Barium	3/1/93	B08VX6	1.34	7.58E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	7.58E+02	
AZ102	Ba	10/1/90			5.00E-03	umol/g	P		RAW	Ba	7.56E+02	
AZ102	Ba	9/1/93			5.00E-03	umol/g	P		RAW	Ba	7.56E+02	
AP106	Barium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C3	0.993	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C5	0.994	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	7.50E+02	
AP106	Barium	3/1/93	B0B2C3	0.993	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	7.50E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Double-Shell Tank Liquids [Sketch ES-VAL-CC51]
 ASA Value: 3.32E+04 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
AP106	Barium	3/1/93	B0B2C5	0.994	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	7.50E+02	
AP105	Barium	3/1/93	B08VX6	1.34	7.36E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	7.36E+02	
AY102	Ba	7/21/88	PNL12966	1.106	5.00E-06	M	L		RAW	Ba	6.87E+02	
AY102	Ba	9/30/88			5.00E-06	M	L		RAW	Ba	6.87E+02	
AW103	Ba	1/23/90	RAT-AW103-1B		6E-07	gm/gm	P	Supernate	Braun	Ba	6.60E+02	
AP105	Barium	3/1/93	B08VX3	1.3	6.54E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	6.54E+02	
AP105	Barium	3/1/93	B08VX1	1.34	5.83E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.83E+02	
AP105	Barium	3/1/93	B08VX1	1.34	5.83E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.83E+02	
AP105	Barium	3/1/93	B08VX8	1.377	5.67E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.67E+02	
AP105	Barium	3/1/93	B08VX0	1.35	5.59E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.59E+02	
AP105	Barium	3/1/93	B0B3D2	1.329	5.53E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.53E+02	
AP105	Barium	3/1/93	B08VX5	1.34	5.48E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.48E+02	
AP105	Barium	3/1/93	B08VX9	1.33	5.45E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.45E+02	
AP105	Barium	3/1/93	B08VX3	1.3	5.41E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.41E+02	
AP105	Barium	3/1/93	B0B3D2	1.329	5.41E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.41E+02	
AP105	Barium	3/1/93	B0B3C9	1.3	5.32E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.32E+02	
AP105	Barium	3/1/93	B0B3C9	1.3	5.31E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.31E+02	
AP105	Barium	3/1/93	B0B3D1	1.334	5.28E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.28E+02	
AP105	Barium	3/1/93	B08VX9	1.33	5.25E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.25E+02	
AP105	Barium	3/1/93	B08VX8	1.377	5.21E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.21E+02	
AP105	Barium	3/1/93	B0B3D1	1.334	5.05E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	5.05E+02	
AP105	Barium	3/1/93	B08VX4	1.39	5.02E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	5.02E+02	
AP105	Barium	3/1/93	B08VX1	1.34	4.97E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.97E+02	
AP105	Barium	3/1/93	B08VX1	1.34	4.97E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.97E+02	
AP105	Barium	3/1/93	B08VX0	1.35	4.87E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	4.87E+02	
AP105	Barium	3/1/93	B08VX2	1.298	4.86E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.86E+02	
AP104	Ba	3/1/88			4.85E-04	g/L	P	Supernatant	Wastren	Ba	4.85E+02	
AP105	Barium	3/1/93	B08VX2	1.298	4.78E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	4.78E+02	
AP105	Barium	3/1/93	B08VX5	1.34	4.68E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.68E+02	
AP102	Ba	2/11/93		0.956764	0.473645	ppm	U		RAW	Ba	4.53E+02	
AP106	Barium	3/1/93	B0B2G2	0.997	4.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	4.50E+02	
AP106	Barium	3/1/93	B0B2G2	0.997	4.50E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.50E+02	
AP105	Barium	3/1/93	B08VX4	1.39	4.28E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	4.28E+02	
AY102	Ba	2/1/90	RAT-AY102-1A	1	2.9E-06	moles/l	P	Supernate	Braun	Ba	3.98E+02	
AY102	Ba	2/12/90		1	2.90E-06	M	P	1st analysis	RAW	Ba	3.98E+02	
AY102	Ba	7/21/88	PNL12966	1.106	2.90E-06	M	P		RAW	Ba	3.98E+02	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Double-Shell Tank Liquids [Sketch ES-VAL-CC51]
 ASA Value: 3.32E+04 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte Information	ID
AY102	Ba	9/30/88		1	2.90E-06	M	P		RAW	Ba	3.98E+02
AY102	Ba	6/30/88			3.98E-04	g/L	P	Supernatant	Wastren	Ba	3.98E+02
AY102	Ba	2/1/90		1	3.70E-01	mg/L	L		RAW	Ba	3.70E+02
AY102	Ba	2/12/90		1	2.50E-06	M	P	2nd analysis	RAW	Ba	3.43E+02
AY102	Ba	7/21/88	PNL12966	1.106	2.50E-06	M	P		RAW	Ba	3.43E+02
AP101	Barium	7/1/93	B0B2H0	0.986	2.42E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	2.42E+02
AP101	Barium	7/1/93	B0B2H0	0.986	2.37E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.37E+02
AZ-102	Ba				5.58E+00	g-moles	L		TRAC	Ba	2.20E+02
AP101	Barium	7/1/93	B0B2G9	0.988	2.15E+02	UG/L	L	PRIMARY RESULT	TCD	Ba	2.15E+02
AP101	Barium	7/1/93	B0B2G9	0.988	2.09E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.09E+02
AP106	Barium	3/1/93	B0B2B8	0.997	2.05E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.05E+02
AP106	Barium	3/1/93	B0B2C1	0.996	1.45E+02	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.45E+02
AN101	Ba	3/27/85	T-2833	1.00	9.00E-07	M	P		RAW	Ba	1.24E+02
Minimum Plot Limit: 1.00E+02 ug/L											
AP106	Barium	3/1/93	B0B2C1	0.996	8.69E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	8.69E+01
AP106	Barium	3/1/93	B0B2B8	0.997	7.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	7.50E+01
AN101	Ba	3/27/85	T-2832		5.0E-07	M	P		RAW	Ba	6.87E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
AP103	Barium	11/1/91	B0BC21	1	6.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	6.50E+01
SY102	Ba	6/30/89		1.52	3.00E-07	mmol/g	P		RAW	Ba	6.26E+01
SY102	Ba	10/1/88			5.36E-05	g/L	P	Supernatant	Wastren	Ba	5.36E+01
AP107	Barium	8/1/93	B08W52	0.987	5.24E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	5.24E+01
AP101	Barium	7/1/93	B0B2G9	0.988	3.78E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.78E+01
AP107	Barium	8/1/93	B08W52	0.987	3.68E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.68E+01
AP101	Barium	7/1/93	B0B2G9	0.988	3.63E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	3.63E+01
AP101	Barium	7/1/93	B0B2H0	0.986	3.46E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.46E+01

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Double-Shell Tank Liquids [Sketch ES-VAL-CC51]
 ASA Value: 3.32E+04 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP101	Barium	7/1/93	B0B2H1	0.985	3.30E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	3.30E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	3.30E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	3.30E+01	
AP107	Barium	8/1/93	B08W49	0.99	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	3.00E+01	
AP107	Barium	8/1/93	B08W49	0.99	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	3.00E+01	
AP101	Barium	7/1/93	B0B2H0	0.986	2.88E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	2.88E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	2.26E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.26E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	2.26E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.26E+01	
AP107	Barium	8/1/93	B08W49	0.99	2.19E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.19E+01	
AP107	Barium	8/1/93	B08W50	0.991	2.06E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.06E+01	
AP107	Barium	8/1/93	B08W50	0.991	2.06E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	2.06E+01	
AP107	Barium	8/1/93	B08W50	0.991	1.86E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.86E+01	
AP107	Barium	8/1/93	B08W50	0.991	1.86E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.86E+01	
AP107	Barium	8/1/93	B08W49	0.99	1.62E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.62E+01	
AP107	Barium	8/1/93	B08W51	0.99	1.58E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.58E+01	
AP101	Barium	7/1/93	B0B2G7	0.987	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2G8	0.983	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP107	Barium	8/1/93	B08W48	0.99	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP107	Barium	8/1/93	B08W51	0.99	1.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2G7	0.987	1.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2G8	0.983	1.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	1.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.50E+01	
AP101	Barium	7/1/93	B0B2H1	0.985	1.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.50E+01	
AP107	Barium	8/1/93	B08W48	0.99	1.50E+01	UG/L	L	PRIMARY RESULT	TCD	Ba	1.50E+01	
AY-102	Ba				9.96E-03	g-moles	L		TRAC	Ba	1.59E+00	
AZ-101	Ba				2.78E-02	g-moles	L		TRAC	Ba	1.27E+00	
SY-101	Ba				3.53E-02	g-moles	L		TRAC	Ba	1.13E+00	
SY-102	Ba				1.41E-02	g-moles	L		TRAC	Ba	9.07E-01	
AY-101	Ba				1.60E-02	g-moles	L		TRAC	Ba	7.11E-01	
AW-106	Ba				7.67E-03	g-moles	L		TRAC	Ba	5.17E-01	
SY-103	Ba				7.22E-03	g-moles	L		TRAC	Ba	4.82E-01	
AW-103	Ba				2.34E-10	g-moles	L		TRAC	Ba	8.84E-09	
SY102	Ba	10/1/88	102-SY-1-2		3E-07	mmol/gm	P	Supernate	Braun	Ba	0.00E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Double-Shell Tank Solids [Sketch ES-VAL-CC52]
 ASA Value: 5.92E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AY102	Ba	7/21/88	PNL12966	1.106	0.071	mmol/g	S		RAW	Ba	1.08E+07	13
AY-101	Ba				216.984	g-moles	S		TRAC	Ba	7.86E+06	4
ASA Value: 5.92E+06 ug/L												
AY101	Ba	3/14/85			3700	mg/kg	S		RAW	Ba	5.92E+06	*
AZ101	Ba	2/11/91			0.24	wt %	S	Core 3	RAW	Ba	3.84E+06	
AY102	Ba	9/30/88			0.017	mmol/g	S		RAW	Ba	3.73E+06	
Preliminary ASA Value: 2.9E+06 ug/L												
AY102	Ba	2/12/90	RAT-AY102-1B	1.4	0.015	mmol/gm	I	Composite	Braun	Ba	2.88E+06	
AY102	Ba	2/12/90		1.4	0.015	mmol/g	S	1st analysis	RAW	Ba	2.88E+06	
AY102	Ba	9/30/88		1.4	0.015	mM/g	I		RAW	Ba	2.88E+06	
AY102	Ba	6/30/88			2.88	g/L	I	Composite	Wastren	Ba	2.88E+06	
AY102	Ba	2/1/90		1.4	2055	mg/kg	S		RAW	Ba	2.88E+06	
AZ101	BaO	9/1/89			0.19	wt %	S	core #1 Washed Solids	RAW	Ba	2.72E+06	
AY102	Ba	2/12/90		1.4	0.014	mmol/g	S	2nd analysis	RAW	Ba	2.69E+06	
AY102	Ba	7/21/88	PNL12966	1.106	0.017	M	S		RAW	Ba	2.33E+06	
AY102	Ba	7/21/88	PNL12966	1.106	0.015	mmol/g	I		RAW	Ba	2.28E+06	
AY102	Ba	7/21/88	PNL12966	1.106	0.014	mmol/g	I		RAW	Ba	2.13E+06	
AZ101	Ba	5/1/89		1.84	7.89	umol/g	S	Core 2	RAW	Ba	1.99E+06	
AN102	Ba	3/14/85			1.93	g/L	G	Sludge	Wastren	Ba	1.93E+06	
AZ101	Ba	May 89			1.76	g/L	G	Sludge	Wastren	Ba	1.76E+06	
AZ101	Ba	9/1/90	RAT-AZ101-5B	1.62	7.89	umol/gm	I	Composite	Braun	Ba	1.76E+06	
AZ101	Ba	4/8/86			0.0084	M	S		RAW	Ba	1.15E+06	
AZ101	Ba	9/1/89	RAT-AZ101-4B	1.7	0.004	mmol/gm	S	Supernate/Solids	Braun	Ba	9.34E+05	
AZ101	Ba	9/1/89		1.7	0.004	mmol/g	S		RAW	Ba	9.34E+05	
AZ102	Ba	10/1/90			4.03	umol/g	S		RAW	Ba	8.85E+05	
AZ102	Ba	9/1/93			4.03	umol/g	S		RAW	Ba	8.85E+05	
AZ102	Ba	Aug 89			0.825	g/L	G	Sludge	Wastren	Ba	8.25E+05	
AZ102	Ba	9/1/93			3.1	umol/g	S	L1	RAW	Ba	6.81E+05	
AW103	Ba	12/11/88	R-4346B	1.49	0.003	mmol/gm	S	Solids	Braun	Ba	6.14E+05	
AZ102	Ba	9/1/93			2.6	umol/g	S	L4	RAW	Ba	5.71E+05	
AZ102	Ba	9/1/93			2.5	umol/g	S	L3	RAW	Ba	5.49E+05	
AZ102	Ba	9/1/93			2.4	umol/g	S	L2	RAW	Ba	5.27E+05	
AZ101	Ba	5/1/89		1.14	3.17	umol/g	S	Core 2	RAW	Ba	4.96E+05	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Double-Shell Tank Solids [Sketch ES-VAL-CC52]
ASA Value: 5.92E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Ba	2/11/91			0.0247	wt %	S	Core 3	RAW	Ba	3.95E+05	
AZ102	Ba	11/5/85	RAT-AZ102-2B	1.4	0.00276	moles/l	S	Solids	Braun	Ba	3.79E+05	
AW103	Ba	1/23/90			0.263	g/L	G	Sludge	Wastren	Ba	2.63E+05	
AW103	Ba	1/23/90	RAT-AW103-1	1.75	0.00015	gm/gm	S	Solids	Braun	Ba	2.63E+05	
AZ102	Ba	9/1/93			1.02	umol/g	S	Washed Solids	RAW	Ba	2.24E+05	
AW103	Ba	1/23/90	RAT-AW103-1C		0.00014	gm/gm	S	Solids	Braun	Ba	2.24E+05	
AW105	Ba	2/24/87	T-7940	1.43	0.00156	moles/l	I	Composite	Braun	Ba	2.14E+05	
AW105	Ba	2/24/87	7940	1.37	0.00156	mol/l	G	Sludge	RAW	Ba	2.14E+05	
AZ101	Ba	9/1/89		1.04	0.00141	mmol/g	S		RAW	Ba	2.01E+05	
AY101	Ba	7/20/88	8371		0.0013	M	S		RAW	Ba	1.78E+05	
AW105	Ba	2/24/87	T-7941	1.34	0.00127	moles/l	I	Composite	Braun	Ba	1.74E+05	
AW105	Ba	2/24/87	7941	1.4	0.00127	mol/l	G	Sludge	RAW	Ba	1.74E+05	
AZ102	Ba	10/1/90		1.11	1.02	umol/g	S		RAW	Ba	1.55E+05	
AW105	Ba	2/24/87	T-7942	1.41	0.00113	moles/l	I	Composite	Braun	Ba	1.55E+05	
AW105	Ba	2/24/87	7942	1.57	0.00113	mol/l	G	Sludge	RAW	Ba	1.55E+05	
AW105	Ba	2/24/87			0.15	g/L	G	Sludge	Wastren	Ba	1.50E+05	
AW105	Ba	2/24/87	RAT-AW105-1	1.3	0.00109	moles/l	G	Sludge/Composite	Braun	Ba	1.50E+05	
SY102	Ba	6/30/89		1.42	0.00068	mmol/g	S		RAW	Ba	1.33E+05	
AW105	Ba	2/24/87	T-7939	1.18	0.000859	moles/l	I	Composite	Braun	Ba	1.18E+05	
AW105	Ba	2/24/87	7939	1.245	0.000859	mol/l	G	Sludge	RAW	Ba	1.18E+05	
AZ101	Ba	4/8/86			8.40E-04	M	S		RAW	Ba	1.15E+05	
AW105	Ba	2/24/87	T-7937	1.17	0.000767	moles/l	I	Composite	Braun	Ba	1.05E+05	
AW105	Ba	2/24/87	7937	1.235	0.000767	mol/l	G	Sludge	RAW	Ba	1.05E+05	
AW105	Ba	2/24/87	T-7946	1.36	0.000693	moles/l	I	Composite	Braun	Ba	9.52E+04	
AW105	Ba	2/24/87	7946	1.365	0.000693	mol/l	G	Sludge	RAW	Ba	9.51E+04	
AW105	Ba	5/1/86	RAT-AW105-2B	1.2	70	ugm/gm	G	Sludge	Braun	Ba	8.40E+04	
SY102	Ba	10/1/88	102-SY-4B	1.8	0.0002	mmol/gm	G	Sludge	Braun	Ba	4.94E+04	
SY102	Ba	6/30/89		1.8	0.0002	mmol/g	S		RAW	Ba	4.94E+04	
SY102	Ba	10/1/88			0.0494	g/L	G	Sludge	Wastren	Ba	4.94E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
SY-102	Ba				5.8459	g-moles	S		TRAC	Ba	2.21E+03	
AZ101	Ba	9/1/89		2.04	3.56E-06	mmol/g	S		RAW	Ba	9.97E+02	
AP105	Ba	5/10/94		1.336	6.38E-01	ug/mL	I		RAW	Ba	6.38E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Barium Double-Shell Tank Solids [Sketch ES-VAL-CC52]
 ASA Value: 5.92E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Barium	4/1/93	B0B2N3	1.6	419	UG/L	S	DUPLICATE RESULT	TCD	Ba	4.19E+02	
AZ102	Ba	10/1/90		1.49	0.002	umol/g	I		RAW	Ba	4.09E+02	
AP102	Barium	4/1/93	B0B2N3	1.6	365	UG/L	S	PRIMARY RESULT	TCD	Ba	3.65E+02	
AP102	Barium	4/1/93	B0B2N2	1.6	345	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.45E+02	
AP102	Barium	4/1/93	B0B2L9	1.2	342	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.42E+02	
AP102	Barium	4/1/93	B0B2L9	1.2	342	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.42E+02	
AP102	Barium	4/1/93	B0B2M2	1.2	342	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.42E+02	
AP102	Barium	4/1/93	B0B2M2	1.2	342	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.42E+02	
AP102	Barium	4/1/93	B0B2L9	1.2	322	UG/L	S	PRIMARY RESULT	TCD	Ba	3.22E+02	
AP102	Barium	4/1/93	B0B2L9	1.2	322	UG/L	S	PRIMARY RESULT	TCD	Ba	3.22E+02	
AP102	Barium	4/1/93	B0B2M0	1.2	314	UG/L	S	PRIMARY RESULT	TCD	Ba	3.14E+02	
AP102	Barium	4/1/93	B0B2M0	1.2	314	UG/L	S	PRIMARY RESULT	TCD	Ba	3.14E+02	
AP102	Barium	4/1/93	B0B2M3	1.2	309	UG/L	S	PRIMARY RESULT	TCD	Ba	3.09E+02	
AP102	Barium	4/1/93	B0B2M3	1.2	309	UG/L	S	PRIMARY RESULT	TCD	Ba	3.09E+02	
AP102	Barium	4/1/93	B0B2M3	1.2	300	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.00E+02	
AP102	Barium	4/1/93	B0B2M3	1.2	300	UG/L	S	DUPLICATE RESULT	TCD	Ba	3.00E+02	
AP102	Barium	4/1/93	B0B2M4	1.2	289	UG/L	S	PRIMARY RESULT	TCD	Ba	2.89E+02	
AP102	Barium	4/1/93	B0B2N2	1.6	288	UG/L	S	PRIMARY RESULT	TCD	Ba	2.88E+02	
AP102	Barium	4/1/93	B0B2M4	1.2	286	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.86E+02	
AP102	Barium	4/1/93	B0B2M2	1.2	284	UG/L	S	PRIMARY RESULT	TCD	Ba	2.84E+02	
AP102	Barium	4/1/93	B0B2M2	1.2	284	UG/L	S	PRIMARY RESULT	TCD	Ba	2.84E+02	
AP102	Barium	4/1/93	B0B2N4	1.2	283	UG/L	S	PRIMARY RESULT	TCD	Ba	2.83E+02	
AP102	Barium	4/1/93	B0B2N4	1.2	283	UG/L	S	PRIMARY RESULT	TCD	Ba	2.83E+02	
AP102	Barium	4/1/93	B0B2M6	1.21	273	UG/L	S	PRIMARY RESULT	TCD	Ba	2.73E+02	
AP102	Barium	4/1/93	B0B2L8	1.21	268	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.68E+02	
AP102	Barium	4/1/93	B0B2L8	1.21	268	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.68E+02	
AP102	Barium	4/1/93	B0B2L8	1.21	260	UG/L	S	PRIMARY RESULT	TCD	Ba	2.60E+02	
AP102	Barium	4/1/93	B0B2L8	1.21	260	UG/L	S	PRIMARY RESULT	TCD	Ba	2.60E+02	
AP102	Barium	4/1/93	B0B2L7	1.2	258	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.58E+02	
AP102	Barium	4/1/93	B0B2L7	1.2	258	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.58E+02	
AP102	Barium	4/1/93	B0B2M6	1.21	252	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.52E+02	
AP102	Barium	4/1/93	B0B2M7	1.2	252	UG/L	S	PRIMARY RESULT	TCD	Ba	2.52E+02	
AP102	Barium	4/1/93	B0B2M7	1.2	252	UG/L	S	PRIMARY RESULT	TCD	Ba	2.52E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Barium Double-Shell Tank Solids [Sketch ES-VAL-CC52]
ASA Value: 5.92E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
AP102	Barium	4/1/93	B0B2M0	1.2	248	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.48E+02	
AP102	Barium	4/1/93	B0B2M0	1.2	248	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.48E+02	
AP102	Barium	4/1/93	B0B2M1	1.21	248	UG/L	S	PRIMARY RESULT	TCD	Ba	2.48E+02	
AP102	Barium	4/1/93	B0B2T9	1.2	248	UG/L	S	PRIMARY RESULT	TCD	Ba	2.48E+02	
AP102	Barium	4/1/93	B0B2T9	1.2	248	UG/L	S	PRIMARY RESULT	TCD	Ba	2.48E+02	
AP102	Barium	4/1/93	B0B2M1	1.21	237	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.37E+02	
AZ101	Ba	5/1/89			0.001	umol/g	I	Core 2	RAW	Ba	2.20E+02	
AP102	Barium	4/1/93	B0B2M7	1.2	207	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.07E+02	
AP102	Barium	4/1/93	B0B2M7	1.2	207	UG/L	S	DUPLICATE RESULT	TCD	Ba	2.07E+02	
AP102	Barium	4/1/93	B0B2M5	1.19	170	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.70E+02	
AP102	Barium	4/1/93	B0B2M5	1.19	170	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.70E+02	
AP102	Barium	4/1/93	B0B2L7	1.2	170	UG/L	S	PRIMARY RESULT	TCD	Ba	1.70E+02	
AP102	Barium	4/1/93	B0B2L7	1.2	170	UG/L	S	PRIMARY RESULT	TCD	Ba	1.70E+02	
AP102	Barium	4/1/93	B0B2T9	1.2	140	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.40E+02	
AP102	Barium	4/1/93	B0B2T9	1.2	140	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.40E+02	
AP102	Barium	4/1/93	B0B2N4	1.2	139	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.39E+02	
AP102	Barium	4/1/93	B0B2N4	1.2	139	UG/L	S	DUPLICATE RESULT	TCD	Ba	1.39E+02	
AP102	Barium	4/1/93	B0B2M5	1.19	90.2	UG/L	S	PRIMARY RESULT	TCD	Ba	9.02E+01	
AP102	Barium	4/1/93	B0B2M5	1.19	90.2	UG/L	S	PRIMARY RESULT	TCD	Ba	9.02E+01	
AZ101	Ba	1/10/86			0.0000462	ppm	R		RAW	Ba	7.39E-02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Beryllium Double-Shell Tank Liquids [Sketch ES-VAL-CC53]

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ASA Value: 3.75E+03 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP106	Beryllium	3/1/93	B0B2B9	0.998	3.83E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	3.83E+03	20
AP106	Beryllium	3/1/93	B0B2C0	1	3.83E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	3.83E+03	20
AP106	Beryllium	3/1/93	B0B2B9	0.998	3.83E+03	UG/L	L	PRIMARY RESULT	TCD	Be	3.83E+03	20
AP106	Beryllium	3/1/93	B0B2C0	1	3.83E+03	UG/L	L	PRIMARY RESULT	TCD	Be	3.83E+03	20
ASA Value: 3.75E+03 ug/L												
AP105	Beryllium	3/1/93	B0B3C8	1.327	3.75E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	3.75E+03	*
AP105	Beryllium	3/1/93	B0B3C8	1.327	3.75E+03	UG/L	L	PRIMARY RESULT	TCD	Be	3.75E+03	
AP105	Beryllium	3/1/93	B0B8VX4	1.39	1.76E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.76E+03	
Preliminary ASA Value: 1.68E+03 ug/L												
AP105	Beryllium	3/1/93	B0B8VX8	1.377	1.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.65E+03	
AP105	Beryllium	3/1/93	B0B8VX6	1.34	1.64E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.64E+03	
AP105	Beryllium	3/1/93	B0B8VX8	1.377	1.60E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.60E+03	
AP105	Beryllium	3/1/93	B0B8VX6	1.34	1.59E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.59E+03	
AP105	Beryllium	3/1/93	B0B8VX4	1.39	1.59E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.59E+03	
AP105	Beryllium	3/1/93	B0B3D2	1.329	1.56E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.56E+03	
AP105	Beryllium	3/1/93	B0B8VX5	1.34	1.52E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.52E+03	
AP105	Beryllium	3/1/93	B0B3D2	1.329	1.50E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.50E+03	
AP105	Beryllium	3/1/93	B0B8VX0	1.35	1.49E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.49E+03	
AP105	Beryllium	3/1/93	B0B8VX1	1.34	1.49E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.49E+03	
AP105	Beryllium	3/1/93	B0B8VX1	1.34	1.49E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.49E+03	
AP105	Beryllium	3/1/93	B0B8VX5	1.34	1.49E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.49E+03	
AP105	Beryllium	3/1/93	B0B3D1	1.334	1.47E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.47E+03	
AP105	Beryllium	3/1/93	B0B8VX7	1.3	1.47E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.47E+03	
AP105	Beryllium	3/1/93	B0B3D1	1.334	1.47E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.47E+03	
AP105	Beryllium	3/1/93	B0B8VX1	1.34	1.45E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.45E+03	
AP105	Beryllium	3/1/93	B0B8VX1	1.34	1.45E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.45E+03	
AP105	Beryllium	3/1/93	B0B8VX9	1.33	1.45E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.45E+03	
AP105	Beryllium	3/1/93	B0B8VX9	1.33	1.43E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.43E+03	
AP105	Beryllium	3/1/93	B0B8VX0	1.35	1.43E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.43E+03	
AP105	Beryllium	3/1/93	B0B8VX7	1.3	1.34E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.34E+03	
AP105	Beryllium	3/1/93	B0B3C9	1.3	1.26E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.26E+03	
AP105	Beryllium	3/1/93	B0B8VX3	1.3	1.22E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.22E+03	
AP105	Beryllium	3/1/93	B0B8VX3	1.3	1.22E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.22E+03	
AP105	Beryllium	3/1/93	B0B3C9	1.3	1.21E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.21E+03	
AP105	Beryllium	3/1/93	B0B8VX2	1.298	1.18E+03	UG/L	L	DUPLICATE RESULT	TCD	Be	1.18E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Double-Shell Tank Liquids [Sketch ES-VAL-CC53]
 ASA Value: 3.75E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Beryllium	3/1/93	B08VX2	1.298	1.16E+03	UG/L	L	PRIMARY RESULT	TCD	Be	1.16E+03	
AP106	Beryllium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C3	0.993	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C5	0.994	7.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C2	0.997	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C3	0.993	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2C5	0.994	7.50E+02	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+02	
AP106	Beryllium	3/1/93	B0B2G2	0.997	4.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Be	4.50E+02	
AP106	Beryllium	3/1/93	B0B2G2	0.997	4.50E+02	UG/L	L	PRIMARY RESULT	TCD	Be	4.50E+02	
AW103	Be	1/23/90			1.30E-04	g/L	P	Supernatant	Wastren	Be	1.30E+02	
AZ102	Be	Aug 89			1.17E-04	g/L	P	Supernatant	Wastren	Be	1.17E+02	
AZ101	Be	5/1/89		1.24	1.00E-02	umol/g	P	Core 2	RAW	Be	1.12E+02	
AZ101	Be	May 89			1.10E-04	g/L	P	Supernatant	Wastren	Be	1.10E+02	
AW103	Be	1/23/90	RAT-AW103-1B		1E-07	gm/gm	P	Supernate	Braun	Be	1.10E+02	
AZ101	Be	9/1/90	RAT-AZ101-5A	1.22	0.01	umol/gm	P	Supernate	Braun	Be	1.10E+02	
AZ102	Be	10/1/90			1.10E-02	umol/g	P		RAW	Be	1.09E+02	
AZ102	Be	9/1/93			1.10E-02	umol/g	P		RAW	Be	1.09E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
AP106	Beryllium	3/1/93	B0B2B8	0.997	7.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+01	
AP106	Beryllium	3/1/93	B0B2C1	0.996	7.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Be	7.50E+01	
AP106	Beryllium	3/1/93	B0B2B8	0.997	7.50E+01	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+01	
AP106	Beryllium	3/1/93	B0B2C1	0.996	7.50E+01	UG/L	L	PRIMARY RESULT	TCD	Be	7.50E+01	
AP102	Be	2/11/93		.95676	0.018946	ppm	U		RAW	Be	1.81E+01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Double-Shell Tank Solids [Sketch ES-VAL-CC54]
 ASA Value: 1.40E+05 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 1.40E+05 ug/L												
AW103	Be	1/23/90	RAT-AW103-1	1.75	0.00008	gm/gm	S	Solids	Braun	Be	1.40E+05	*
AW103	Be	1/23/90			0.14	g/L	G	Sludge	Wastren	Be	1.40E+05	*
AW103	Be	1/23/90	RAT-AW103-1C		0.00005	gm/gm	S	Solids	Braun	Be	8.00E+04	
AZ101	Be	5/1/89		1.14	4.56	umol/g	S	Core 2	RAW	Be	4.68E+04	
AZ101	Be	5/1/89		1.84	2.17	umol/g	S	Core 2	RAW	Be	3.60E+04	
AZ101	Be	5/1/89			0.0317	g/L	G	Sludge	Wastren	Be	3.17E+04	
AZ101	Be	9/1/90	RAT-AZ101-5B	1.62	2.17	umol/gm	I	Composite	Braun	Be	3.17E+04	
AZ102	Be	10/1/90			1.5	umol/g	S		RAW	Be	2.16E+04	
AZ102	Be	9/1/93			1.5	umol/g	S		RAW	Be	2.16E+04	
AZ102	Be	9/1/93			1.4	umol/g	S	L1	RAW	Be	2.02E+04	
AZ102	Be	8/1/89			0.0201	g/L	G	Sludge	Wastren	Be	2.01E+04	
AZ102	Be	9/1/93			1.2	umol/g	S	L4	RAW	Be	1.73E+04	
AZ101	Be	2/11/91			0.001	wt %	S	Core 3	RAW	Be	1.60E+04	
AZ102	Be	9/1/93			1.1	umol/g	S	L2	RAW	Be	1.59E+04	
AZ101	Be	2/11/91			0.0008	wt %	S	Core 3	RAW	Be	1.28E+04	
AZ102	Be	9/1/93			0.47	umol/g	S	Washed Solids	RAW	Be	6.78E+03	
AZ102	Be	9/1/93			0.4	umol/g	S	L3	RAW	Be	5.77E+03	
AZ102	Be	10/1/90		1.11	0.47	umol/g	S		RAW	Be	4.70E+03	
AP105	Be	5/10/94		1.336	.46E+0	ug/mL	I		RAW	Be	1.46E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
AP102	Beryllium	4/1/93	B0B2M6	1.21	163	UG/L	S	DUPLICATE RESULT	TCD	Be	1.63E+02	
AP102	Beryllium	4/1/93	B0B2N3	1.6	163	UG/L	S	DUPLICATE RESULT	TCD	Be	1.63E+02	
AP102	Beryllium	4/1/93	B0B2M5	1.19	161	UG/L	S	PRIMARY RESULT	TCD	Be	1.61E+02	
AP102	Beryllium	4/1/93	B0B2M5	1.19	161	UG/L	S	PRIMARY RESULT	TCD	Be	1.61E+02	
AP102	Beryllium	4/1/93	B0B2M7	1.2	158	UG/L	S	DUPLICATE RESULT	TCD	Be	1.58E+02	
AP102	Beryllium	4/1/93	B0B2M7	1.2	158	UG/L	S	DUPLICATE RESULT	TCD	Be	1.58E+02	
AP102	Beryllium	4/1/93	B0B2N2	1.6	158	UG/L	S	DUPLICATE RESULT	TCD	Be	1.58E+02	
AP102	Beryllium	4/1/93	B0B2N2	1.6	158	UG/L	S	PRIMARY RESULT	TCD	Be	1.58E+02	
AP102	Beryllium	4/1/93	B0B2N4	1.2	154	UG/L	S	DUPLICATE RESULT	TCD	Be	1.54E+02	
AP102	Beryllium	4/1/93	B0B2N4	1.2	154	UG/L	S	DUPLICATE RESULT	TCD	Be	1.54E+02	
AP102	Beryllium	4/1/93	B0B2N3	1.6	154	UG/L	S	PRIMARY RESULT	TCD	Be	1.54E+02	
AP102	Beryllium	4/1/93	B0B2T9	1.2	152	UG/L	S	DUPLICATE RESULT	TCD	Be	1.52E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Double-Shell Tank Solids [Sketch ES-VAL-CC54]
 ASA Value: 1.40E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
AP102	Beryllium	4/1/93	BOB2T9	1.2	152	UG/L	S	DUPLICATE RESULT	TCD	Be	1.52E + 02	
AP102	Beryllium	4/1/93	BOB2L8	1.21	150	UG/L	S	DUPLICATE RESULT	TCD	Be	1.50E + 02	
AP102	Beryllium	4/1/93	BOB2L8	1.21	150	UG/L	S	DUPLICATE RESULT	TCD	Be	1.50E + 02	
AP102	Beryllium	4/1/93	BOB2M1	1.21	149	UG/L	S	DUPLICATE RESULT	TCD	Be	1.49E + 02	
AP102	Beryllium	4/1/93	BOB2M7	1.2	149	UG/L	S	PRIMARY RESULT	TCD	Be	1.49E + 02	
AP102	Beryllium	4/1/93	BOB2M7	1.2	149	UG/L	S	PRIMARY RESULT	TCD	Be	1.49E + 02	
AP102	Beryllium	4/1/93	BOB2M4	1.2	147	UG/L	S	DUPLICATE RESULT	TCD	Be	1.47E + 02	
AP102	Beryllium	4/1/93	BOB2M0	1.2	147	UG/L	S	PRIMARY RESULT	TCD	Be	1.47E + 02	
AP102	Beryllium	4/1/93	BOB2M0	1.2	147	UG/L	S	PRIMARY RESULT	TCD	Be	1.47E + 02	
AP102	Beryllium	4/1/93	BOB2M2	1.2	147	UG/L	S	PRIMARY RESULT	TCD	Be	1.47E + 02	
AP102	Beryllium	4/1/93	BOB2M2	1.2	147	UG/L	S	PRIMARY RESULT	TCD	Be	1.47E + 02	
AP102	Beryllium	4/1/93	BOB2L7	1.2	146	UG/L	S	DUPLICATE RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2L7	1.2	146	UG/L	S	DUPLICATE RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2L7	1.2	146	UG/L	S	PRIMARY RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2L7	1.2	146	UG/L	S	PRIMARY RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2N4	1.2	146	UG/L	S	PRIMARY RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2N4	1.2	146	UG/L	S	PRIMARY RESULT	TCD	Be	1.46E + 02	
AP102	Beryllium	4/1/93	BOB2L8	1.21	145	UG/L	S	PRIMARY RESULT	TCD	Be	1.45E + 02	
AP102	Beryllium	4/1/93	BOB2L8	1.21	145	UG/L	S	PRIMARY RESULT	TCD	Be	1.45E + 02	
AP102	Beryllium	4/1/93	BOB2L9	1.2	145	UG/L	S	PRIMARY RESULT	TCD	Be	1.45E + 02	
AP102	Beryllium	4/1/93	BOB2L9	1.2	145	UG/L	S	PRIMARY RESULT	TCD	Be	1.45E + 02	
AP102	Beryllium	4/1/93	BOB2L9	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2L9	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2M0	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2M0	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2M2	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2M2	1.2	143	UG/L	S	DUPLICATE RESULT	TCD	Be	1.43E + 02	
AP102	Beryllium	4/1/93	BOB2M6	1.21	140	UG/L	S	PRIMARY RESULT	TCD	Be	1.40E + 02	
AP102	Beryllium	4/1/93	BOB2T9	1.2	140	UG/L	S	PRIMARY RESULT	TCD	Be	1.40E + 02	
AP102	Beryllium	4/1/93	BOB2T9	1.2	140	UG/L	S	PRIMARY RESULT	TCD	Be	1.40E + 02	
AP102	Beryllium	4/1/93	BOB2M3	1.2	139	UG/L	S	DUPLICATE RESULT	TCD	Be	1.39E + 02	
AP102	Beryllium	4/1/93	BOB2M3	1.2	139	UG/L	S	DUPLICATE RESULT	TCD	Be	1.39E + 02	
AP102	Beryllium	4/1/93	BOB2M4	1.2	136	UG/L	S	PRIMARY RESULT	TCD	Be	1.36E + 02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Beryllium Double-Shell Tank Solids [Sketch ES-VAL-CC54]
 ASA Value: 1.40E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP102	Beryllium	4/1/93	B0B2M5	1.19	135	UG/L	S	DUPLICATE RESULT	TCD	Be	1.35E+02	
AP102	Beryllium	4/1/93	B0B2M5	1.19	135	UG/L	S	DUPLICATE RESULT	TCD	Be	1.35E+02	
AP102	Beryllium	4/1/93	B0B2M3	1.2	132	UG/L	S	PRIMARY RESULT	TCD	Be	1.32E+02	
AP102	Beryllium	4/1/93	B0B2M3	1.2	132	UG/L	S	PRIMARY RESULT	TCD	Be	1.32E+02	
AP102	Beryllium	4/1/93	B0B2M1	1.21	127	UG/L	S	PRIMARY RESULT	TCD	Be	1.27E+02	
AZ102	Be	10/1/90		1.49	0.002	umol/g	I		RAW	Be	2.69E+01	
AZ101	Be	5/1/89			0.001	umol/g	I	Core 2	RAW	Be	1.44E+01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 1.28E+06 ug/L												
AN107	Ca	3/6/85	RAT-AN107-1B		0.032	moles/l	P	Supernate	Braun	Ca	1.28E+06	*
AW105	Ca	10/29/85	7625	1.34	7.00E-02	wt%	U		RAW	Ca	9.38E+05	
AW105	Ca	10/29/85	7625	1.34	2.34E-02	mol/l	U		RAW	Ca	9.36E+05	
SY101	Ca	May91			8.47E-01	g/L	L	Liquid	Wastren	Ca	8.47E+05	
AN102	Ca	2/28/85	R-3640	1.39	2.03E-02	M	P		RAW	Ca	8.12E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.16	6.20E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	7.19E+05	
AN107	Ca	2/28/85	R-3637	1.41	0.0173	moles/l	P	Supernate	Braun	Ca	6.93E+05	
AN107	Ca	3/6/85	RAT-AN107-1A		0.0173	moles/l	P	Supernate	Braun	Ca	6.93E+05	
AN107	Ca	2/28/85	R3637	1.41	1.73E-02	M	P		RAW	Ca	6.92E+05	
SY101	Ca	5/1/91			6.72E-01	g/L	L	Liquid	Wastren	Ca	6.72E+05	
sy101	Calcium	12/1/91	BOB281	1.24	2.89E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	6.63E+05	
AW105	Ca	10/29/85	7627	1.36	4.80E-02	wt%	U		RAW	Ca	6.53E+05	
AW105	Ca	10/29/85	7627	1.36	1.63E-02	mol/l	U		RAW	Ca	6.52E+05	
AZ101	Ca	4/8/86			1.60E-02	M	L		RAW	Ca	6.40E+05	
AN107	Ca	2/28/85	R-3638	1.35	0.0159	moles/l	L	Liquor	Braun	Ca	6.37E+05	
AN107	Ca	2/28/85	R3638	1.35	1.59E-02	M	P		RAW	Ca	6.36E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.1	6.20E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	6.20E+05	
sy101	Calcium	12/1/91	BOB282	1.24	3.05E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	6.13E+05	
sy101	Calcium	12/1/91	BOBB62	1.1	5.52E+02	ug/g	L	DUPLICATE RESULT	TCD	Ca	6.07E+05	
AN107	Ca	5/13/94	R4048 J-1815	1.349	5.89E+02	ug/mL	P	C-Cup Sample	RAW	Ca	5.89E+05	
AN107	Ca	5/13/94	R4047 J-1812	1.345	5.85E+02	ug/mL	P	C-Cup Sample	RAW	Ca	5.85E+05	
sy101	Calcium	12/1/91	BOBB62	1.1	5.18E+02	ug/g	L	PRIMARY RESULT	TCD	Ca	5.70E+05	
AN107	Ca	5/13/94	R3155	1.384	0.041	Wt%	P		RAW	Ca	5.67E+05	
AN107	Ca	5/13/94	R4048 J-1814	1.352	5.49E+02	ug/mL	P	C-Cup Sample	RAW	Ca	5.49E+05	
AN107	Ca	5/13/94	R4047 J-1813	1.363	5.45E+02	ug/mL	P	C-Cup Sample	RAW	Ca	5.45E+05	
AW103	Ca	4/9/88	T-8200	1.04	0.0135	moles/l	P	Supernate	Braun	Ca	5.41E+05	
AW103	Ca	4/9/88	T-8200	1.04	1.35E-02	mol/l	L	No solids	RAW	Ca	5.40E+05	
sy101	Calcium	12/1/91	BOB276	1.19	2.78E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	5.36E+05	
AN107	Ca	6/29/90	R5887		0.0133	M	P	Rest 30 days	RAW	Ca	5.32E+05	
AN107	Ca	5/13/94	R3154	1.392	0.038	Wt%	P		RAW	Ca	5.29E+05	
AN102	Ca	2/28/85			4.93E-01	g/L	P	Supernate	Wastren	Ca	4.93E+05	
AN102	Ca	2/28/85	R-3639	1.39	0.0123	moles/l	P	Supernate	Braun	Ca	4.93E+05	
AN102	Ca	2/28/85	R-3639	1.39	1.23E-02	M	P		RAW	Ca	4.92E+05	
sy101	Calcium	12/1/91	BOB271	1.27	2.60E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	4.69E+05	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
 ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Calcium	12/1/91	B0B271	1.27	2.60E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	4.69E+05	
AN102	Ca	8/1/91		1.35	4.50E+02	ug/mL	P		RAW	Ca	4.50E+05	
sy101	Calcium	12/1/91	B0B276	1.19	2.11E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	4.39E+05	
SY103	Ca	June 85			4.01E-01	g/L	U	Top	Wastren	Ca	4.01E+05	
SY103	Ca	10/29/85	R-5256	1.35	1.00E-02	M	F		RAW	Ca	4.00E+05	
AN107	Ca	5/13/94	R2686	1.047	0.038	Wt%	P		RAW	Ca	3.98E+05	
SY101	Ca	8/20/92			0.036	Wt%	L	Acid Dig	RAW	Ca	3.96E+05	
AW105	Ca	10/29/85	7628	1.35	9.76E-03	mol/l	U		RAW	Ca	3.90E+05	
sy101	Calcium	12/1/91	B0B9X3	1.267	3.06E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	3.88E+05	
sy101	Calcium	12/1/91	B0B9X3	1.267	3.02E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	3.83E+05	
sy101	Calcium	12/1/91	B0B276	1.19	1.93E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	3.72E+05	
AW105	Ca	10/29/85	7631	1.22	9.13E-03	mol/l	U		RAW	Ca	3.65E+05	
sy101	Calcium	12/1/91	B0B276	1.19	1.71E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	3.56E+05	
AY101	Ca	2/28/85	R-3641	1.11	0.00882	moles/l	P	Supernate	Braun	Ca	3.53E+05	
AY101	Ca	2/28/85	R-3641	1.11E+00	8.82E-03	M	P		RAW	Ca	3.53E+05	
AW105	Ca	10/29/85	7626	1.34	2.50E-02	wt%	U		RAW	Ca	3.35E+05	
AW105	Ca	10/29/85	7626	1.34	8.35E-03	mol/l	U		RAW	Ca	3.34E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.79E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	3.27E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.79E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	3.27E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.76E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	3.17E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.76E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	3.17E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.69E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	3.09E+05	
sy101	Calcium	12/1/91	B0B271	1.27	1.69E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	3.09E+05	
SY101	Ca	8/20/92			0.028	Wt%	L	Acid Dig	RAW	Ca	3.08E+05	
sy101	Calcium	12/1/91	B0B279	1.305	2.01E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	3.07E+05	
sy101	Calcium	12/1/91	B0B279	1.305	2.01E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	3.07E+05	
sy101	Calcium	12/1/91	B0B9X3	1.1	3.06E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	3.06E+05	
sy101	Calcium	12/1/91	B0B9X3	1.1	3.02E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	3.02E+05	
sy101	Calcium	12/1/91	B0BB41	1.072	2.79E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.99E+05	
sy101	Calcium	12/1/91	B0B9Z7	1.16	2.50E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.90E+05	
SY101	Ca	8/20/92			0.026	Wt%	L	Acid Dig	RAW	Ca	2.86E+05	
sy101	Calcium	12/1/91	B0B9X3	1.267	2.25E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.85E+05	
sy101	Calcium	12/1/91	B0BB41	1.1	2.79E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.79E+05	
AN107	Ca	5/13/94	R4047 J-1820	1.157	2.56E+02	ug/mL	P	Water Wash	RAW	Ca	2.56E+05	
AW105	Ca	10/29/85	7632	1.28	2.00E-02	wt%	U		RAW	Ca	2.56E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
 ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Calcium	12/1/91	BOB9Z7	1.16	2.20E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	2.55E+05	
AW105	Ca	10/29/85	7632	1.28	6.38E-03	mol/l	U		RAW	Ca	2.55E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.1	2.50E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.50E+05	
sy101	Calcium	12/1/91	BOB281	1.24	1.07E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	2.45E+05	
AN107	Ca	5/13/94	R4047 J-1819	1.150	2.42E+02	ug/mL	P	Water Wash	RAW	Ca	2.42E+05	
sy101	Calcium	12/1/91	BOBB23	1.144	2.11E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.41E+05	
sy101	Calcium	12/1/91	BOBB41	1.072	2.25E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	2.41E+05	
sy101	Calcium	12/1/91	BOB9X3	1.1	2.25E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.25E+05	
sy101	Calcium	12/1/91	BOBB41	1.1	2.25E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	2.25E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.1	2.20E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	2.20E+05	
sy101	Calcium	12/1/91	BOBB23	1.1	2.11E+02	MG/L	L	DUPLICATE RESULT	TCD	Ca	2.11E+05	
sy101	Calcium	12/1/91	BOB281	1.24	1.32E+05	ug/g	L	DUPLICATE RESULT	TCD	Ca	2.06E+05	
sy101	Calcium	12/1/91	BOBB23	1.144	1.74E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	1.99E+05	
SY101	Ca	8/20/92			0.018	Wt%	L	Acid Dig	RAW	Ca	1.98E+05	
AW105	Ca	10/29/85	7633	1.41	1.40E-02	wt%	U		RAW	Ca	1.97E+05	
AW105	Ca	10/29/85	7633	1.41	4.92E-03	mol/l	U		RAW	Ca	1.97E+05	
sy101	Calcium	12/1/91	BOB281	1.24	1.23E+05	ug/g	L	PRIMARY RESULT	TCD	Ca	1.92E+05	
AY101	Ca	3/14/85	-----	1.12	1.78E+02	mg/L	L	-----	RAW	Ca	1.78E+05	
AY101	Ca	2/28/85	R-3642	1.12E+00	4.43E-03	M	P		RAW	Ca	1.77E+05	
AN107	Ca	5/13/94	R4048 J-1818	1.141	1.75E+02	ug/mL	P	Water Wash	RAW	Ca	1.75E+05	
sy101	Calcium	12/1/91	BOBB23	1.1	1.74E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	1.74E+05	
sy101	Calcium	12/1/91	BOBB23	1.144	1.51E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	1.73E+05	
AN107	Ca	5/13/94	R4047 J-1821	1.349	1.60E+02	ug/mL	P	Water Wash	RAW	Ca	1.60E+05	
sy101	Calcium	12/1/91	BOBB23	1.1	1.51E+02	MG/L	L	PRIMARY RESULT	TCD	Ca	1.51E+05	
sy101	Calcium	12/1/91	BOB282	1.24	6.71E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	1.33E+05	
SY103	Ca	June 85			1.24E-01	g/L	U	Bottom	Wastren	Ca	1.24E+05	
SY103	Ca	10/29/85	5257	1.5	3.10E-03	M	F		RAW	Ca	1.24E+05	
SY101	Ca	5/30/86	R-6396	1.3	3.05E-03	M	P		RAW	Ca	1.22E+05	
SY101	Ca	8/20/92			0.011	Wt%	L	Acid Dig	RAW	Ca	1.21E+05	
AY101	Ca	3/1/87	RAT-AY101-1	1.09	0.003	moles/l	P	Supernate	Braun	Ca	1.20E+05	
AY101	Ca	6/23/87		1.09	3.00E-03	M	P		RAW	Ca	1.20E+05	
AN106	Ca	2/19/87	R-2089	1.344	0.00293	moles/l	P	Supernate	Braun	Ca	1.17E+05	
AN106	Ca	7/21/87	R-2089	1.344	2.93E-03	M	P		RAW	Ca	1.17E+05	
AP107	Caicium	8/1/93	B08W52	0.987	1.13E+05	UG/L	L	PRIMARY RESULT	TCD	Ca	1.13E+05	
AN106	Ca	2/19/87	R-2090	1.32	0.00268	moles/l	P	Supernate	Braun	Ca	1.07E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
 ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AN106	Ca	7/21/87	R2090	1.320	2.68E-03	M	U		RAW	Ca	1.07E+05	
AW-101	Calcium	6/28/90	10A/5a	1.67	2.64E-03	M	L	55 In from the bottom	RAW	Ca	1.06E+05	
sy101	Calcium	12/1/91	BOB279	1.305	6.67E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	1.02E+05	
sy101	Calcium	12/1/91	BOB279	1.305	6.67E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	1.02E+05	
sy101	Calcium	12/1/91	BOB280	1.33	7.23E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	1.01E+05	
AW-101	Calcium	6/28/90	10A/5b	1.58	2.49E-03	M	L	55 In from the bottom	RAW	Ca	9.96E+04	
AN106	Ca	2/19/87	R-2456	1.223	0.00213	moles/l	P	Supernate	Braun	Ca	8.54E+04	
sy101	Calcium	12/1/91	BOB280	1.33	5.23E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	8.49E+04	
AW102	Ca	1/28/83	R5001	1.36E+00	2.00E-03	M	O		RAW	Ca	8.00E+04	
sy101	Calcium	12/1/91	BOB282	1.24	3.95E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	7.93E+04	
sy101	Calcium	12/1/91	BOB279	1.305	5.29E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	7.87E+04	
sy101	Calcium	12/1/91	BOB279	1.305	5.29E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	7.87E+04	
sy101	Calcium	12/1/91	BOB282	1.24	3.95E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	7.84E+04	
sy101	Calcium	12/1/91	BOB279	1.305	5.08E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	7.56E+04	
sy101	Calcium	12/1/91	BOB279	1.305	5.08E+04	ug/g	L	PRIMARY RESULT	TCD	Ca	7.56E+04	
AW-101	Calcium	6/28/90	10A/7a	1.56	1.76E-03	M	L	251 In from the bottom	RAW	Ca	7.04E+04	
AW-101	Calcium	6/28/90	10A/7b	1.56	1.71E-03	M	L	251 In from the bottom	RAW	Ca	6.84E+04	
AP107	Calcium	8/1/93	BO8W49	0.99	6.81E+04	UG/L	L	DUPLICATE RESULT	TCD	Ca	6.81E+04	
AN106	Ca	2/1/90			6.72E-02	g/L	P	Supernatant	Wastren	Ca	6.72E+04	
SY101	Ca	8/20/92			0.006	Wt%	L	Acid Dig	RAW	Ca	6.60E+04	
AZ102	Ca	11/5/85	RAT-AZ102-2A	1.09	0.0016	moles/l	P	Supernate	Braun	Ca	6.41E+04	
sy101	Calcium	12/1/91	BOB280	1.33	3.89E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	6.31E+04	
AW-101	Calcium	6/28/90	16C/4a	1.55	1.54E-03	M	L	387 In from the bottom	RAW	Ca	6.16E+04	
sy101	Calcium	12/1/91	BOB280	1.33	4.08E+04	ug/g	L	DUPLICATE RESULT	TCD	Ca	5.70E+04	
AW-101	Calcium	6/28/90	16C/4b	1.53	1.38E-03	M	L	387 In from the bottom	RAW	Ca	5.52E+04	
sy101	Calcium	12/1/91	BOBBB5	1.1	5.50E+01	MG/L	L	PRIMARY RESULT	TCD	Ca	5.50E+04	
SY102	Ca	6/30/89		1.29	9.70E-04	mmol/g	P		RAW	Ca	5.01E+04	
AP107	Calcium	8/1/93	BO8W49	0.99	4.71E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	4.71E+04	
AW105	Ca	5/1/86	RAT-AW105-2A	1.079	40	ugm/gm	P	Supernate	Braun	Ca	4.32E+04	
SY102	Ca	1/25/90	102SY3T4L		9.70E-04	mmol/g	P		RAW	Ca	4.27E+04	
AN101	Ca	12/19/90	R3820	1.15	3.37E+01	ppm	O		RAW	Ca	3.88E+04	
AW105	Ca	4/5/88	T-7966	1.008	0.000946	moles/l	P	Supernate	Braun	Ca	3.79E+04	
AW105	Ca	6/24/88	T-7966	1.0081	9.46E-04	mol/l	P		RAW	Ca	3.78E+04	
AN106	Ca	2/19/87	R-2088	1.142	0.000929	moles/l	P	Supernate	Braun	Ca	3.72E+04	
AN106	Ca	7/21/87	R-2088	1.142	9.29E-04	M	P		RAW	Ca	3.72E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
 ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY102	Ca	1/4/89	R-4332	1.18	9.23E-04	M	L		RAW	Ca	3.69E+04	
SY102	Ca	11/1/88		1.18	9.20E-04	M	L	3 + Upper 4	RAW	Ca	3.68E+04	
SY102	Ca	5/2/89		1.57	7.40E-04	M	L		RAW	Ca	2.96E+04	
AW-101	Calcium	6/28/90	10A/6a	1.57	6.56E-04	M	L	150 In from the bottom	RAW	Ca	2.62E+04	
AW-101	Calcium	6/28/90	10A/8a	1.56	6.24E-04	M	L	338 In from the bottom	RAW	Ca	2.50E+04	
AW-101	Calcium	6/28/90	22A/9a	1.55	6.14E-04	M	L	52 In from the bottom	RAW	Ca	2.46E+04	
AW101	Ca	6/23/86		1.37	1.58E-03	Wt%	F	filtrate	RAW	Ca	2.16E+04	
AZ102	Ca	2/4/85	R-3700	1.11	0.000536	moles/l	P	Supernate	Braun	Ca	2.15E+04	
AW-101	Calcium	6/28/90	22A/12a	1.57	5.24E-04	M	L	367 In from the bottom	RAW	Ca	2.10E+04	
AW101	Ca	7/6/86		1.53	1.36E-03	Wt%	F	FILTRATE	RAW	Ca	2.08E+04	
AW101	Ca	6/26/86		1.49	1.39E-03	Wt%	F	FILTRATE	RAW	Ca	2.07E+04	
AW-101	Calcium	6/28/90	16C/2a	1.56	5.14E-04	M	L	138 In from the bottom	RAW	Ca	2.06E+04	
AP107	Calcium	8/1/93	B08W48	0.99	2.05E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	2.05E+04	
AW-101	Calcium	6/28/90	16C/1a	1.55	5.11E-04	M	L	94 In from the bottom	RAW	Ca	2.04E+04	
AN101	Ca	3/27/85	T-2833	1.00	5.00E-04	M	P		RAW	Ca	2.00E+04	
AP107	Calcium	8/1/93	B08W50	0.991	1.97E+04	UG/L	L	DUPLICATE RESULT	TCD	Ca	1.97E+04	
AP107	Calcium	8/1/93	B08W50	0.991	1.97E+04	UG/L	L	DUPLICATE RESULT	TCD	Ca	1.97E+04	
AW102	Ca	3/10/86	R-8586	1.22E+00	4.83E-04	M	L	No Solids	RAW	Ca	1.93E+04	
AZ102	Ca	2/4/85	R-3699	1.11	0.000476	moles/l	P	Supernate	Braun	Ca	1.91E+04	
AW-101	Calcium	6/28/90	22A/11a	1.55	4.74E-04	M	L	260 In from the bottom	RAW	Ca	1.90E+04	
AW-101	Calcium	6/28/90	16C/3a	1.58	4.69E-04	M	L	291 In from the bottom	RAW	Ca	1.88E+04	
AW101	Ca	7/2/86		1.5	1.24E-03	Wt%	F	FILTRATE	RAW	Ca	1.86E+04	
AW-101	Calcium	6/28/90	22A/11b	1.55	4.62E-04	M	L	260 In from the bottom	RAW	Ca	1.85E+04	
AW-101	Calcium	6/28/90	10A/6b	1.55	4.59E-04	M	L	150 In from the bottom	RAW	Ca	1.84E+04	
AW-101	Calcium	6/28/90	22A/10a	1.56	4.59E-04	M	L	170 In from the bottom	RAW	Ca	1.84E+04	
AN101	Ca	3/27/85	R-3963	1.02	0.00041	moles/l	P	Supernate	Braun	Ca	1.64E+04	
AN101	Ca	3/27/85	R-3963	1.02	4.10E-04	M	P		RAW	Ca	1.64E+04	
AW-101	Calcium	6/28/90	22A/9b	1.57	3.99E-04	M	L	52 In from the bottom	RAW	Ca	1.60E+04	
AW102	Ca	4/20/88	T-8435	1.04	0.000397	moles/l	P	Supernate	Braun	Ca	1.59E+04	
AW-101	Calcium	6/28/90	16C/2b	1.51	3.82E-04	M	L	138 In from the bottom	RAW	Ca	1.53E+04	
AW-101	Calcium	6/28/90	22A/10b	1.56	3.69E-04	M	L	170 In from the bottom	RAW	Ca	1.48E+04	
AW-101	Calcium	6/28/90	16C/3b	1.56	3.67E-04	M	L	291 In from the bottom	RAW	Ca	1.47E+04	
AW-101	Calcium	6/28/90	10A/8b	1.55	3.67E-04	M	L	338 In from the bottom	RAW	Ca	1.47E+04	
AP101	Calcium	7/1/93	B0B2G7	0.987	1.43E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	1.43E+04	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW-101	Calcium	6/28/90	22A/12b	1.58	3.29E-04	M	L	367 In from the bottom	RAW	Ca	1.32E+04	
AW-101	Calcium	6/28/90	16C/1b	1.51	3.19E-04	M	L	94 In from the bottom	RAW	Ca	1.28E+04	
AP107	Calcium	8/1/93	B08W51	0.99	1.22E+04	UG/L	L	DUPLICATE RESULT	TCD	Ca	1.22E+04	
SY102	Ca	3/12/93	R3353	1.064	1.11E+01	ug/mL	O	Bottom	RAW	Ca	1.11E+04	
AP101	Calcium	7/1/93	BOB2G9	0.988	1.06E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	1.06E+04	
AP101	Calcium	7/1/93	BOB2H1	0.985	1.05E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	1.05E+04	
AP101	Calcium	7/1/93	BOB2H1	0.985	1.05E+04	UG/L	L	PRIMARY RESULT	TCD	Ca	1.05E+04	
AZ101	Ca	11/18/85	RAT-AZ101-1	1.17	0.00026	moles/l	P	Supernate	Braun	Ca	1.04E+04	
AZ101	Ca	1/10/86		1.170	2.60E-04	M	P		RAW	Ca	1.04E+04	
AZ101	Ca	4/8/86			2.60E-04	M	P		RAW	Ca	1.04E+04	
SY103	Ca	June 85			1.00E-02	g/L	U	Middle	Wastren	Ca	1.00E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
AP107	Calcium	8/1/93	B08W52	0.987	9.97E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	9.97E+03	
AZ101	Ca	5/1/89		1.24	1.96E-01	umol/g	P	Core 2	RAW	Ca	9.72E+03	
AN106	Ca	2/19/87	R-2087	1.087	0.000242	moles/l	P	Supernate	Braun	Ca	9.70E+03	
AN106	Ca	9/16/87	R-2087	1.087	2.42E-04	M	P		RAW	Ca	9.68E+03	
AZ101	Ca	9/1/90	RAT-AZ101-5A	1.22	0.196	umol/gm	P	Supernate	Braun	Ca	9.58E+03	
AZ101	Ca	May 89			9.58E-03	g/L	P	Supernatant	Wastren	Ca	9.58E+03	
AP107	Calcium	8/1/93	B08W48	0.99	8.99E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	8.99E+03	
AP101	Calcium	7/1/93	BOB2G9	0.988	8.82E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	8.82E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	7.49E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	7.49E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	7.49E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	7.49E+03	
SY102	Ca	7/1/88			1.80E-04	M	P		RAW	Ca	7.20E+03	
AP101	Calcium	7/1/93	BOB2H0	0.986	6.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	6.65E+03	
AP103	Ca	4/6/88	RAT-AP103-1		0.000164	moles/l	P	Supernate	Braun	Ca	6.57E+03	
AP103	Ca	4/6/88			6.57E-03	g/L	P	Supernatant	Wastren	Ca	6.57E+03	
AP103	Ca	4/6/88	R-8090		1.64E-04	M	L	No solids	RAW	Ca	6.56E+03	
AZ102	Ca	Aug 89			6.24E-03	g/L	P	Supernatant	Wastren	Ca	6.24E+03	
AP101	Calcium	7/1/93	BOB2H0	0.986	6.15E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	6.15E+03	
AZ101	Ca	9/13/85	RAT-AZ101-3A	1.17	0.000152	moles/l	P	Supernate	Braun	Ca	6.09E+03	
AZ101	Ca	9/13/85		1.17	1.52E-04	M	P		RAW	Ca	6.08E+03	
AZ102	Ca	10/1/90			1.32E-01	umol/g	P		RAW	Ca	5.81E+03	
AZ102	Ca	9/1/93			1.32E-01	umol/g	P		RAW	Ca	5.81E+03	
AP101	Caicium	7/1/93	BOB2G7	0.987	5.45E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	5.45E+03	
AP102	Ca	4/29/88			5.30E-03	g/L	P	Supernatant	Wastren	Ca	5.30E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Ca	4/29/88	R-8469		5.30E+00	UG/ML	P	No Solids	RAW	Ca	5.30E+03	
AY102	Ca	6/30/88			4.41E-03	g/L	P	Supernatant	Wastren	Ca	4.41E+03	
AY102	Ca	2/1/90	RAT-AY102-1A	1	0.00011	moles/l	P	Supernate	Braun	Ca	4.41E+03	
SY102	Ca	11/1/88		1.02	1.10E-04	M	L	1 + 2 Liquid	RAW	Ca	4.40E+03	
AY102	Ca	2/12/90		1	1.10E-04	M	P	1st analysis	RAW	Ca	4.40E+03	
AY102	Ca	7/21/88	PNL12966	1.106	1.10E-04	M	P		RAW	Ca	4.40E+03	
AY102	Ca	9/30/88		1	1.10E-04	M	P		RAW	Ca	4.40E+03	
AZ101	Ca	9/1/89	RAT-AZ101-4A	1.2	0.00009	mmol/gm	P	Supernate	Braun	Ca	4.33E+03	
AZ101	Ca	9/1/89		1.2	9.00E-05	mmol/g	P		RAW	Ca	4.32E+03	
SY102	Ca	6/30/89		1.52	7.00E-05	mmol/g	P		RAW	Ca	4.26E+03	
AP101	Calcium	7/1/93	BOB2H0	0.986	4.25E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	4.25E+03	
AP101	Calcium	7/1/93	BOB2G9	0.988	4.24E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	4.24E+03	
SY102	Ca	1/4/89	R-4331	1.02	1.06E-04	M	L		RAW	Ca	4.24E+03	
SY102	Ca	7/1/88		1.128	1.00E-04	M	P		RAW	Ca	4.00E+03	
AP104	Ca	7/10/87	T-513		9.86E-05	moles/l	P	Supernate	Braun	Ca	3.95E+03	
AP104	Ca	7/10/87	T-513		9.86E-05	M	P		RAW	Ca	3.94E+03	
AP101	Calcium	7/1/93	BOB2G9	0.988	3.93E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	3.93E+03	
AY102	Ca	2/1/90		1	3.90E+00	mg/L	L		RAW	Ca	3.90E+03	
AP101	Calcium	7/1/93	BOB2H0	0.986	3.84E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	3.84E+03	
SY102	Ca	10/1/88			3.65E-03	g/L	P	Supernatant	Wastren	Ca	3.65E+03	
SY102	Ca	6/1/84		1.17	8.66E-05	M	P		RAW	Ca	3.46E+03	
AY102	Ca	2/12/90		1	8.30E-05	M	P	2nd analysis	RAW	Ca	3.32E+03	
AY102	Ca	7/21/88	PNL12966	1.106	8.30E-05	M	P		RAW	Ca	3.32E+03	
AP101	Calcium	7/1/93	BOB2G8	0.983	3.18E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	3.18E+03	
SY102	Ca	3/12/93	R3355	1	3.15E+00	ug/mL	L	no solids	RAW	Ca	3.15E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	3.13E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	3.13E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	3.13E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	3.13E+03	
AW103	Ca	1/23/90			3.12E-03	g/L	P	Supernatant	Wastren	Ca	3.12E+03	
SY102	Ca	10/1/88	102-SY-1-2		0.00007	mmol/gm	P	Supernate	Braun	Ca	3.09E+03	
SY102	Ca	1/25/90	102SY1-2		7.00E-05	mmol/g	P		RAW	Ca	3.08E+03	
AP101	Calcium	7/1/93	BOB2G8	0.983	2.77E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	2.77E+03	
AW103	Ca	1/23/90	RAT-AW103-1B		2.4E-06	gm/gm	P	Supernate	Braun	Ca	2.64E+03	
AY102	Ca	7/21/88	PNL12966	1.106	6.50E-05	M	L		RAW	Ca	2.60E+03	
AP107	Calcium	8/1/93	BOB2W49	0.99	2.59E+03	UG/L	L	PRIMARY RESULT	TCD	Ca	2.59E+03	
SY102	Ca	3/12/93	R3354	1.002	2.47E+00	ug/mL	L	no solids	RAW	Ca	2.47E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY102	Ca	6/1/88	RAT-SY102-1		0.00006	moles/l	P	Supernate	Braun	Ca	2.40E+03	
SY102	Ca	6/1/88			6.00E-05	M	P		RAW	Ca	2.40E+03	
SY102	Ca	8/16/89	R-5029	1.012	6.00E-05	M	P		RAW	Ca	2.40E+03	
SY102	Ca	8/16/89	R-5027	1.014	6.00E-05	M	P		RAW	Ca	2.40E+03	
AN101	Ca	3/27/85	T-2832		5.6E-05	M	P		RAW	Ca	2.24E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	2.01E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	2.01E+03	
AP101	Calcium	7/1/93	BOB2H1	0.985	2.01E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	2.01E+03	
SY102	Ca	8/16/89	R-5028	1.013	5.00E-05	M	P		RAW	Ca	2.00E+03	
AP107	Calcium	8/1/93	B08W49	0.99	1.90E+03	UG/L	L	DUPLICATE RESULT	TCD	Ca	1.90E+03	
AY102	Ca	7/21/88	PNL12966	1.106	4.00E-05	M	L		RAW	Ca	1.60E+03	
AP104	Ca	3/1/88	RAT-AP104-1B	1.01	1.5	ppm	P	Supernate	Braun	Ca	1.52E+03	
SY102	Ca	10/5/84	R-3038	1.06	2.99E-05	moles/l	P	Supernate	Braun	Ca	1.20E+03	
SY102	Ca	8/2/88	R-3038	1.06	2.99E-05	M	P		RAW	Ca	1.20E+03	
AP103	Ca	2/8/88	RAT-AP103-4		2.47E-05	moles/l	P	Supernate	Braun	Ca	9.90E+02	
AP104	Ca	3/1/88	RAT-AP104-1A	1.03	0.9	ppm	P	Supernate	Braun	Ca	9.27E+02	
AP102	Ca	12/31/88		1.01	0.9	ppm	U		RAW	Ca	9.09E+02	
SY102	Ca	10/5/84	R-3037	1.03	2.25E-05	moles/l	P	Supernate	Braun	Ca	9.02E+02	
AW105	Ca	1/1/85	R-4036	0.974	0.000022	moles/l	L	Liquor	Braun	Ca	8.82E+02	
AW105	Ca	6/10/85	R-4036	0.974	2.20E-05	M	L	Clear	RAW	Ca	8.80E+02	
AW103	Ca	10/4/88	R-3760		2.20E-05	M	P	Supernate	RAW	Ca	8.80E+02	
AP104	Ca	3/1/88			8.74E-04	g/L	P	Supernatant	Wastren	Ca	8.74E+02	
AP102	Ca	2/11/93		0.956764	0.852562	ppm	U		RAW	Ca	8.16E+02	
AP103	Ca	2/8/88	RAT-AP103-2		1.94E-05	moles/l	P	Supernate	Braun	Ca	7.78E+02	
AP103	Ca	2/8/88	R-7369		1.94E-05	M	P	No solids	RAW	Ca	7.76E+02	
AZ101	Ca	9/1/89		1.2	1.46E-05	mmol/g	L		RAW	Ca	7.01E+02	
AY102	Ca	7/21/88	PNL12966	1.106	1.00E-05	M	P		RAW	Ca	4.00E+02	
AY102	Ca	9/30/88		1.4	1.00E-05	M	L		RAW	Ca	4.00E+02	
AZ-102	Ca				1.75E+01	g-moles	L		TRAC	Ca	2.01E+02	
AY102	Ca	7/21/88	PNL12966	1.106	2.50E-06	M	L		RAW	Ca	1.00E+02	
AY102	Ca	9/30/88		1.4	2.50E-06	M	L		RAW	Ca	1.00E+02	
SY102	Ca	8/2/88	R-3037	1.03	2.25E-06	M	P		RAW	Ca	9.00E+01	
AP107	Calcium	8/1/93	B08W50	0.991	8.00E+00	UG/L	L	PRIMARY RESULT	TCD	Ca	8.00E+00	
AP107	Calcium	8/1/93	B08W50	0.991	8.00E+00	UG/L	L	PRIMARY RESULT	TCD	Ca	8.00E+00	
AP107	Calcium	8/1/93	B08W51	0.99	8.00E+00	UG/L	L	PRIMARY RESULT	TCD	Ca	8.00E+00	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Liquids [Sketch ES-VAL-CC55]
 ASA Value: 1.28E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AY-101	Ca				4.06E-01	g-moles	L		TRAC	Ca	5.26E+00	
AZ-101	Ca				2.38E-01	g-moles	L		TRAC	Ca	3.16E+00	
AY-102	Ca				2.54E-02	g-moles	L		TRAC	Ca	1.18E+00	
AW-106	Ca				6.00E-03	g-moles	L		TRAC	Ca	1.18E-01	
SY-103	Ca				1.20E-03	g-moles	L		TRAC	Ca	2.33E-02	
SY-102	Ca				6.63E-04	g-moles	L		TRAC	Ca	1.24E-02	
SY-101	Ca				5.74E-04	g-moles	L		TRAC	Ca	5.36E-03	
AW-103	Ca				8.92E-10	g-moles	L		TRAC	Ca	9.82E-09	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID	
					Value	Unit							
AW101	Ca	12/19/91		8.258E-04	94.16	M	I		RAW	Ca	3.77E+09	13	
AY102	Ca	9/30/88		1.4	0.46	mmol/g	S		RAW	Ca	2.58E+07	*	
ASA Value: 2.58E+07 ug/L													
SY102	Ca	11/8/84		1.2	2.08	wt %	S		RAW	Ca	2.50E+07		
AY102	Ca	6/30/88			23.6	g/L	I	Composite	Wastren	Ca	2.36E+07		
AY102	Ca	2/12/90	RAT-AY102-1B	1.4	0.42	mmol/gm	I	Composite	Braun	Ca	2.36E+07		
AY102	Ca	9/30/88		1.4	0.42	mM/g	I		RAW	Ca	2.35E+07		
AY102	Ca	2/12/90		1.4	0.42	mmol/g	S	1st analysis	RAW	Ca	2.35E+07		
AY102	Ca	2/1/90		1.4	14000	mg/kg	S		RAW	Ca	1.96E+07		
AY102	Ca	7/21/88	PNL12966	1.106	0.42	mmol/g	I		RAW	Ca	1.86E+07		
AY102	Ca	7/21/88	PNL12966	1.106	0.46	M	S		RAW	Ca	1.84E+07		
AY102	Ca	2/12/90		1.4	0.28	mmol/g	S	2nd analysis	RAW	Ca	1.57E+07		
AY102	Ca	7/21/88	PNL12966	1.106	0.31	mmol/g	S		RAW	Ca	1.37E+07		
AY101	Ca	3/14/85			8100	mg/kg	S		RAW	Ca	1.30E+07		
AZ101	Ca	2/11/91			0.806	wt %	S	Core 3	RAW	Ca	1.29E+07		
AY102	Ca	7/21/88	PNL12966	1.106	0.28	mmol/g	I		RAW	Ca	1.24E+07		
SY102	Ca	11/2/84	R-3036	2.65	0.45	wt %	S		RAW	Ca	1.19E+07		
SY102	Ca	7/1/88			7.26	mgm/gm	S		RAW	Ca	1.16E+07		
AZ101	CaO	9/1/89			1	wt %	S	core #1 Washed Solids	RAW	Ca	1.14E+07		
AZ101	Ca	10/1/87	RAT-AZ101-6B		0.25	moles/l	G	Sludge/Composite	Braun	Ca	1.00E+07		
AZ101	Ca	3/11/88	T-3494		0.25	M	S		RAW	Ca	1.00E+07		
SY102	Ca	1/25/90	102SY3T4S		0.142	mmol/g	S		RAW	Ca	9.09E+06		
SY102	Ca	7/1/88		1.128	7.59	mg/g	S		RAW	Ca	8.56E+06		
sy101	Calcium	12/1/91	BOBB41	1.6	5330	ug/g	S	PRIMARY RESULT	TCD	Ca	8.53E+06		
SY102	Ca	6/30/89		1.42	0.142	mmol/g	S		RAW	Ca	8.07E+06		
SY102	Ca	10/5/84	R-3036		0.45	wt.%	S	Solids	Braun	Ca	7.20E+06		
AW105	Ca	2/24/87	T-7946	1.36	0.168	moles/l	I	Composite	Braun	Ca	6.73E+06		
AW105	Ca	2/24/87	7946	1.365	0.168	mol/l	G	Sludge	RAW	Ca	6.72E+06		
sy101	Calcium	12/1/91	BOB9Z7	1.6	4130	ug/g	S	DUPLICATE RESULT	TCD	Ca	6.61E+06		
AZ101	Ca	5/1/89		1.84	88.1	umol/g	S	Core 2	RAW	Ca	6.48E+06		
AZ101	Ca	4/8/86			0.15	M	S		RAW	Ca	6.00E+06		
AZ101	Ca	9/1/90	RAT-AZ101-5B	1.62	88.1	umol/gm	I	Composite	Braun	Ca	5.72E+06		
AZ101	Ca	May 89			5.72	g/L	G	Sludge	Wastren	Ca	5.72E+06		
AZ102	Ca	9/1/93			86.4	umol/g	S	L4	RAW	Ca	5.53E+06		
AZ102	Ca	10/1/90			75.4	umol/g	S		RAW	Ca	4.83E+06		
AZ102	Ca	9/1/93			75.4	umol/g	S		RAW	Ca	4.83E+06		
AZ102	Ca	Aug 89			4.5	g/L	G	Sludge	Wastren	Ca	4.50E+06		
sy101	Calcium	12/1/91	BOB9X3	1.6	2690	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.30E+06		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ102	Ca	9/1/93			65.7	umol/g	S	L1	RAW	Ca	4.20E+06	
SY102	Ca	12/27/89			0.1	M	S		RAW	Ca	4.00E+06	
sy101	Calcium	12/1/91	BOB9Z7	1.6	2410	ug/g	S	PRIMARY RESULT	TCD	Ca	3.86E+06	
AZ102	Ca	9/1/93			55.2	umol/g	S	L2	RAW	Ca	3.53E+06	
sy101	Calcium	12/1/91	BOB9X3	1.6	2090	ug/g	S	PRIMARY RESULT	TCD	Ca	3.34E+06	
sy101	Calcium	12/1/91	BOB9Z7	1.6	2080	ug/g	S	PRIMARY RESULT	TCD	Ca	3.33E+06	
AZ101	Ca	9/1/89	RAT-AZ101-4B	1.7	0.048	mmol/gm	S	Supernate/Solids	Braun	Ca	3.27E+06	
AZ101	Ca	9/1/89		1.7	0.048	mmol/g	S		RAW	Ca	3.26E+06	
AZ102	Ca	9/1/93			50.3	umol/g	S	L3	RAW	Ca	3.22E+06	
SY102	Ca	2/22/91			1700	ppm	S	12M	RAW	Ca	2.72E+06	
sy101	Calcium	12/1/91	BOB9X3	1.6	1640	ug/g	S	PRIMARY RESULT	TCD	Ca	2.62E+06	
SY102	Ca	2/22/91			1520	ppm	S	6M	RAW	Ca	2.43E+06	
SY102	Ca	2/22/91			1420	ppm	S	9M	RAW	Ca	2.27E+06	
AZ101	Ca	5/1/89		1.14	47.2	umol/g	S	Core 2	RAW	Ca	2.15E+06	
SY102	Ca	2/22/91			1320	ppm	S	3M	RAW	Ca	2.11E+06	
SY101	Ca	10/6/92			0.128	Wt%	S		RAW	Ca	2.05E+06	
sy101	Calcium	12/1/91	BOBBB5	1.6	1270	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.03E+06	
SY101	Ca	10/6/92			0.127	Wt%	S		RAW	Ca	2.03E+06	
sy101	Calcium	12/1/91	BOB281	1.244	1570000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.95E+06	
AN102	Ca	3/14/85			1.93	g/L	G	Sludge	Wastren	Ca	1.93E+06	
SY101	Ca	May 91			1.93	g/L	S	Solids	Wastren	Ca	1.93E+06	
SY101	Ca	May 91			1.92	g/L	S	Solids	Wastren	Ca	1.92E+06	
SY101	Ca	10/6/92			0.119	Wt%	I		RAW	Ca	1.90E+06	
sy101	Calcium	12/1/91	BOB280	1.33	1420000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.89E+06	
SY101	Ca	8/20/92			0.117	Wt%	S	Fusion	RAW	Ca	1.87E+06	
AN102	Ca	3/14/85	R-3640		0.11	wt. %	S	Solids	Braun	Ca	1.76E+06	
SY101	Ca	8/20/92			0.108	Wt%	S	Fusion	RAW	Ca	1.73E+06	
sy101	Calcium	12/1/91	BOB280	1.33	1210000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.61E+06	
sy101	Calcium	12/1/91	BOB9Z7	1.6	992	ug/g	S	PRIMARY RESULT	TCD	Ca	1.59E+06	
sy101	Calcium	12/1/91	BOB280	1.33	1180000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.57E+06	
sy101	Calcium	12/1/91	BOB280	1.33	1170000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.56E+06	
SY101	Ca	8/20/92			0.097	Wt%	S	Fusion	RAW	Ca	1.55E+06	
sy101	Calcium	12/1/91	BOBBB5	1.6	947	ug/g	S	PRIMARY RESULT	TCD	Ca	1.52E+06	
AZ101	Ca	2/11/91			0.0923	wt %	S	Core 3	RAW	Ca	1.48E+06	
AW103	Ca	12/11/88	R-4346B	1.49	0.024	mmol/gm	S	Solids	Braun	Ca	1.43E+06	
sy101	Calcium	12/1/91	BOB282	1.235	1120000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.38E+06	
sy101	Calcium	12/1/91	BOB282	1.235	1120000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.38E+06	
AZ102	Ca	11/5/85	RAT-AZ102-2B	1.4	0.034	moles/l	S	Solids	Braun	Ca	1.36E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information												Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID	
					Value	Unit							
sy101	Calcium	12/1/91	BOB281	1.244	1090000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.36E+06		
SY101	Ca	8/20/92			0.082	Wt%	S	Fusion	RAW	Ca	1.31E+06		
sy101	Calcium	12/1/91	BOB282	1.235	1060000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.31E+06		
sy101	Calcium	12/1/91	BOB282	1.235	1060000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.31E+06		
AZ102	Ca	9/1/93			20.1	umol/g	S	Washed Solids	RAW	Ca	1.29E+06		
sy101	Calcium	12/1/91	BOBB23	1.6	787	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.26E+06		
sy101	Calcium	12/1/91	BOB280	1.33	925000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.23E+06		
sy101	Calcium	12/1/91	BOB280	1.33	892000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.19E+06		
sy101	Calcium	12/1/91	BOBB23	1.6	738	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.18E+06		
sy101	Calcium	12/1/91	BOB279	1.306	903000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.18E+06		
sy101	Calcium	12/1/91	BOB281	1.244	930000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.16E+06		
sy101	Calcium	12/1/91	BOB279	1.306	883000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.15E+06		
sy101	Calcium	12/1/91	BOB282	1.235	912000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.13E+06		
sy101	Calcium	12/1/91	BOB282	1.235	912000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.13E+06		
SY101	Ca	8/20/92			0.069	Wt%	S	Acid Dig	RAW	Ca	1.10E+06		
sy101	Calcium	12/1/91	BOB271	1.63	662000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.08E+06		
sy101	Calcium	12/1/91	BOB927	1.6	670	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.07E+06		
sy101	Calcium	12/1/91	BOB271	1.63	657000	ug/g	S	PRIMARY RESULT	TCD	Ca	1.07E+06		
SY101	Ca	May 91			1.07	g/L	I	Composite 3	Wastren	Ca	1.07E+06		
SY101	Ca	10/6/92			0.066	Wt%	I		RAW	Ca	1.06E+06		
sy101	Calcium	12/1/91	BOBBF3	1.6	634	ug/g	S	PRIMARY RESULT	TCD	Ca	1.01E+06		
sy101	Calcium	12/1/91	BOB279	1.306	772000	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.01E+06		
sy101	Calcium	12/1/91	BOB927	1.6	627	ug/g	S	DUPLICATE RESULT	TCD	Ca	1.00E+06		
Minimum Plot Limit: 1.00E+06 ug/L													
SY101	Ca	8/20/92			0.062	Wt%	S	Acid Dig	RAW	Ca	9.92E+05		
sy101	Calcium	12/1/91	BOBB23	1.6	616	ug/g	S	PRIMARY RESULT	TCD	Ca	9.86E+05		
sy101	Calcium	12/1/91	BOB282	1.235	793000	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.79E+05		
sy101	Calcium	12/1/91	BOB282	1.235	793000	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.79E+05		
sy101	Calcium	12/1/91	BOB271	1.63	593000	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.67E+05		
sy101	Calcium	12/1/91	BOBB41	1.6	596	ug/g	S	PRIMARY RESULT	TCD	Ca	9.54E+05		
sy101	Calcium	12/1/91	BOB271	1.63	583000	ug/g	S	PRIMARY RESULT	TCD	Ca	9.50E+05		
sy101	Calcium	12/1/91	BOB279	1.306	726000	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.48E+05		
sy101	Calcium	12/1/91	BOBBX9	1.64	575	ug/g	S	PRIMARY RESULT	TCD	Ca	9.43E+05		
SY101	Ca	10/6/92			0.058	Wt%	I		RAW	Ca	9.28E+05		
sy101	Calcium	12/1/91	BOBBX9	1.64	549	ug/g	S	DUPLICATE RESULT	TCD	Ca	9.00E+05		
sy101	Calcium	12/1/91	BOB281	1.244	723000	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.99E+05		
sy101	Calcium	12/1/91	BOBB41	1.6	559	ug/g	S	PRIMARY RESULT	TCD	Ca	8.94E+05		
AZ102	Ca	10/1/90		1.11	20.1	umol/g	S		RAW	Ca	8.92E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte Information		ID
										Analyte	ug/L	
SY101	Ca	May 91			0.875	g/L	I	Composite	Wastren	Ca	8.75E+05	
sy101	Calcium	12/1/91	BOBBX9	1.64	528	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.66E+05	
SY101	Ca	10/6/92			0.054	Wt%	I		RAW	Ca	8.64E+05	
AN107	Ca	6/29/90	R5887		1.34E-05	mol/g ppt	S	Parr Bomb	RAW	Ca	8.58E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.6	530	ug/g	S	PRIMARY RESULT	TCD	Ca	8.48E+05	
sy101	Calcium	12/1/91	BOBBF3	1.6	521	ug/g	S	DUPLICATE RESULT	TCD	Ca	8.34E+05	
SY101	Ca	10/6/92			0.052	Wt%	I		RAW	Ca	8.32E+05	
sy101	Calcium	12/1/91	BOBBB5	1.6	517	ug/g	S	PRIMARY RESULT	TCD	Ca	8.27E+05	
AW105	Ca	2/24/87	T-7942	1.41	0.0204	moles/l	I	Composite	Braun	Ca	8.18E+05	
AW105	Ca	2/24/87	7942	1.57	0.0204	mol/l	G	Sludge	RAW	Ca	8.16E+05	
sy101	Calcium	12/1/91	BOBB23	1.6	508	ug/g	S	PRIMARY RESULT	TCD	Ca	8.13E+05	
AZ101	Ca	9/1/89		1.04	0.0194	mmol/g	S		RAW	Ca	8.07E+05	
sy101	Calcium	12/1/91	BOB9X3	1.6	498	ug/g	S	PRIMARY RESULT	TCD	Ca	7.97E+05	
SY101	Ca	8/20/92			0.048	Wt%	S	Acid Dig	RAW	Ca	7.68E+05	
SY102	Ca	10/1/88			0.758	g/L	G	Sludge	Wastren	Ca	7.58E+05	
SY102	Ca	10/1/88	102-SY-4B	1.8	0.0105	mmol/gm	G	Sludge	Braun	Ca	7.57E+05	
SY102	Ca	6/30/89		1.8	0.0105	mmol/g	S		RAW	Ca	7.56E+05	
SY102	Ca	1/25/90	102SY4B	1.8	0.0105	mmol/g	S		RAW	Ca	7.56E+05	
sy101	Calcium	12/1/91	BOBBX9	1.64	457	ug/g	S	PRIMARY RESULT	TCD	Ca	7.49E+05	
AN107	Ca	5/13/94	R4048		0.0461	Wt%	G	Sludge	RAW	Ca	7.38E+05	
sy101	Calcium	12/1/91	BOBBB5	1.6	460	ug/g	S	DUPLICATE RESULT	TCD	Ca	7.36E+05	
SY101	Ca	10/6/92			0.046	Wt%	I		RAW	Ca	7.36E+05	
SY101	Ca	May 91			0.713	g/L	I	Composite 4	Wastren	Ca	7.13E+05	
sy101	Calcium	12/1/91	BOB9X3	1.6	441	ug/g	S	PRIMARY RESULT	TCD	Ca	7.06E+05	
SY101	Ca	8/20/92			0.044	Wt%	S	Acid Dig	RAW	Ca	7.04E+05	
SY101	Ca	10/6/92			0.044	Wt%	I		RAW	Ca	7.04E+05	
AN107	Ca	5/13/94	R4048 J-1826		430	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ca	6.88E+05	
AN107	Ca	6/29/90	R5887		1.07E-05	mol/g ppt	S	Rest 30 days	RAW	Ca	6.85E+05	
AN107	Ca	5/13/94	R4048	1.473	0.046	Wt%	G		RAW	Ca	6.78E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.6	423	ug/g	S	DUPLICATE RESULT	TCD	Ca	6.77E+05	
AW105	Ca	2/24/87	RAT-AW105-1	1.3	0.0168	moles/l	G	Sludge/Composite	Braun	Ca	6.73E+05	
AW105	Ca	2/24/87			0.673	g/L	G	Sludge	Wastren	Ca	6.73E+05	
AN107	Ca	6/29/90	R5887		1.05E-05	mol/g ppt	S	Rest 24 hrs	RAW	Ca	6.72E+05	
sy101	Calcium	12/1/91	BOB9Z7	1.6	417	ug/g	S	PRIMARY RESULT	TCD	Ca	6.67E+05	
SY101	Ca	8/20/92			0.041	Wt%	S	Acid Dig	RAW	Ca	6.56E+05	
AN107	Ca	5/13/94	R4047		0.0409	Wt%	G	Sludge	RAW	Ca	6.54E+05	
AN107	Ca	5/13/94	R4047	1.464	0.041	Wt%	G		RAW	Ca	6.00E+05	
sy101	Calcium	12/1/91	BOB276	1.19	489000	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.82E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
ASA Value: 2.58E+07 ug/L

Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AW103	Ca	1/23/90	RAT-AW103-1C		0.00036	gm/gm	S	Solids	Braun	Ca	5.76E+05	
SY101	Calcium	12/1/91	BOB276	1.6	354	ug/g	S	PRIMARY RESULT	TCD	Ca	5.66E+05	
AW103	Ca	1/23/90			0.56	g/L	G	Sludge	Wastren	Ca	5.60E+05	
SY101	Calcium	12/1/91	BOB276	1.19	449000	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.34E+05	
SY101	Ca	8/20/92			0.033	Wt%	S	Acid Dig	RAW	Ca	5.28E+05	
SY101	Calcium	12/1/91	BOB279	1.306	401000	ug/g	S	PRIMARY RESULT	TCD	Ca	5.24E+05	
SY101	Calcium	12/1/91	BOB276	1.19	440000	ug/g	S	PRIMARY RESULT	TCD	Ca	5.24E+05	
AN107	Ca	5/13/94	R4047 J-1824		327	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ca	5.23E+05	
SY101	Calcium	12/1/91	BOB9X3	1.6	323	ug/g	S	DUPLICATE RESULT	TCD	Ca	5.17E+05	
SY101	Calcium	12/1/91	BOB9L9	1.659	303	ug/g	S	PRIMARY RESULT	TCD	Ca	5.03E+05	
SY101	Calcium	12/1/91	BOB9Z7	1.6	302	ug/g	S	PRIMARY RESULT	TCD	Ca	4.83E+05	
SY101	Calcium	12/1/91	BOB841	1.6	301	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.82E+05	
SY101	Calcium	12/1/91	BOB841	1.6	300	ug/g	S	PRIMARY RESULT	TCD	Ca	4.80E+05	
SY101	Calcium	12/1/91	BOB841	1.6	294	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.70E+05	
AN107	Ca	5/13/94	R4047 J-1825		294	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ca	4.70E+05	
SY101	Calcium	12/1/91	BOB280	1.33	340000	ug/g	S	PRIMARY RESULT	TCD	Ca	4.52E+05	
SY101	Calcium	12/1/91	BOB276	1.19	377000	ug/g	S	PRIMARY RESULT	TCD	Ca	4.49E+05	
SY101	Calcium	12/1/91	BOB279	1.306	338000	ug/g	S	PRIMARY RESULT	TCD	Ca	4.41E+05	
AY101	Ca	7/20/88	8371		0.011	M	S		RAW	Ca	4.40E+05	
SY101	Ca	8/20/92			0.027	Wt%	S	Acid Dig	RAW	Ca	4.32E+05	
SY101	Ca	8/20/92			0.027	Wt%	S	Acid Dig	RAW	Ca	4.32E+05	
SY101	Ca	8/20/92			0.027	Wt%	S	Acid Dig	RAW	Ca	4.32E+05	
SY101	Ca	8/20/92			0.027	Wt%	S	Acid Dig	RAW	Ca	4.32E+05	
AN107	Ca	5/13/94	R4048		0.0267	Wt%	G	C-Solids	RAW	Ca	4.27E+05	
AN107	Ca	5/13/94	R4048 J-1827		266	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ca	4.26E+05	
SY101	Calcium	12/1/91	BOB281	1.244	342000	ug/g	S	DUPLICATE RESULT	TCD	Ca	4.25E+05	
SY103	Ca	6/24/85	R-5255	1.69	0.01	moles/l	S	Slurry/Solids	Braun	Ca	4.01E+05	
SY103	Ca	7/2/85	R-5256	1.35	0.01	moles/l	S	Slurry/Solids	Braun	Ca	4.01E+05	
SY103	Ca	10/29/85	R-5255	1.69	0.01	M	R		RAW	Ca	4.00E+05	
SY101	Calcium	12/1/91	BOB279	1.306	299000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.90E+05	
AW103	Ca	1/23/90	RAT-AW103-1	1.75	0.00022	gm/gm	S	Solids	Braun	Ca	3.85E+05	
SY101	Calcium	12/1/91	BOB280	1.33	283000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.76E+05	
SY101	Calcium	12/1/91	BOB279	1.306	285000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.72E+05	
SY101	Calcium	12/1/91	BOB282	1.235	297000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.67E+05	
SY101	Calcium	12/1/91	BOB282	1.235	297000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.67E+05	
SY101	Calcium	12/1/91	BOB282	1.235	288000	ug/g	S	PRIMARY RESULT	TCD	Ca	3.56E+05	
SY101	Calcium	12/1/91	BOB282	1.235	288000	ug/g	S	PRIMARY RESULT	TCD	Ca	3.56E+05	
SY101	Ca	8/20/92			0.022	Wt%	S	Acid Dig	RAW	Ca	3.52E+05	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY101	Ca	8/20/92			0.022	Wt%	S	Acid Dig	RAW	Ca	3.52E+05	
sy101	Calcium	12/1/91	BOBBX7	1.6	214	ug/g	S	PRIMARY RESULT	TCD	Ca	3.42E+05	
sy101	Calcium	12/1/91	BOBBX7	1.6	210	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.36E+05	
AN107	Ca	5/13/94	R4047		0.0206	Wt%	G	C-Solids	RAW	Ca	3.30E+05	
AN107	Ca	5/13/94	R4047		0.0204	Wt%	G	C-Sup	RAW	Ca	3.26E+05	
sy101	Calcium	12/1/91	BOB282	1.235	257000	ug/g	S	PRIMARY RESULT	TCD	Ca	3.17E+05	
sy101	Calcium	12/1/91	BOB282	1.235	257000	ug/g	S	PRIMARY RESULT	TCD	Ca	3.17E+05	
sy101	Calcium	12/1/91	BOB281	1.244	252000	ug/g	S	DUPLICATE RESULT	TCD	Ca	3.13E+05	
sy101	Calcium	12/1/91	BOB281	1.244	251000	ug/g	S	PRIMARY RESULT	TCD	Ca	3.12E+05	
AN107	Ca	5/13/94	R4048		0.0194	Wt%	G	C-Sup	RAW	Ca	3.10E+05	
sy101	Calcium	12/1/91	BOBBD5	1.6	187	ug/g	S	PRIMARY RESULT	TCD	Ca	2.99E+05	
sy101	Calcium	12/1/91	BOBBX7	1.6	186	ug/g	S	PRIMARY RESULT	TCD	Ca	2.98E+05	
AN107	Ca	5/13/94	R4048		0.0185	Wt%	G	WW-Solids	RAW	Ca	2.96E+05	
AN107	Ca	5/13/94	R4048		0.0185	Wt%	S	WW-Solids	RAW	Ca	2.96E+05	
sy101	Calcium	12/1/91	BOB282	1.235	235000	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.90E+05	
sy101	Calcium	12/1/91	BOB282	1.235	235000	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.90E+05	
SY101	Ca	5/30/86	R-6394	1.69	0.00711	moles/l	Y	Slurry	Braun	Ca	2.85E+05	
sy101	Calcium	12/1/91	BOB281	1.244	229000	ug/g	S	PRIMARY RESULT	TCD	Ca	2.85E+05	
SY101	Ca	5/30/86	R-6394	1.69	0.00711	M	R		RAW	Ca	2.84E+05	
sy101	Calcium	12/1/91	BOBBX7	1.6	177	ug/g	S	DUPLICATE RESULT	TCD	Ca	2.83E+05	
SY101	Ca	8/20/92			0.017	Wt%	S	Acid Dig	RAW	Ca	2.72E+05	
SY101	Ca	8/20/92			0.017	Wt%	S	Acid Dig	RAW	Ca	2.72E+05	
AW105	Ca	2/24/87	T-7940	1.43	0.00678	moles/l	I	Composite	Braun	Ca	2.72E+05	
AW105	Ca	2/24/87	7940	1.37	0.00678	mol/l	G	Sludge	RAW	Ca	2.71E+05	
AW105	Ca	5/1/86	RAT-AW105-2B	1.2	200	ugm/gm	G	Sludge	Braun	Ca	2.40E+05	
SY101	Ca	5/30/86	R-6395	1.17	0.00515	moles/l	Y	Slurry	Braun	Ca	2.06E+05	
SY101	Ca	5/30/86	R-6395	1.29	0.00515	moles/l	Y	Slurry	Braun	Ca	2.06E+05	
SY101	Ca	5/30/86	R-6395	1.29	0.00515	M	R		RAW	Ca	2.06E+05	
AW105	Ca	2/24/87	T-7941	1.34	0.00501	moles/l	I	Composite	Braun	Ca	2.01E+05	
AW105	Ca	2/24/87	7941	1.4	0.00501	mol/l	G	Sludge	RAW	Ca	2.00E+05	
AN107	Ca	5/13/94	R4047		0.0121	Wt%	G	WW-Solids	RAW	Ca	1.94E+05	
AN107	Ca	5/13/94	R4047		0.0121	Wt%	S	WW-Solids	RAW	Ca	1.94E+05	
AY-101	Ca				17.094	g-moles	S		TRAC	Ca	1.80E+05	
AN103	Ca	9/25/87	TKO92587	1.560	2.88	umole/g	Y		RAW	Ca	1.80E+05	
AY101	Ca	2/28/85	R-3642	1.12	0.00443	moles/l	S	Supernate/Solids	Braun	Ca	1.78E+05	
AN107	Ca	5/13/94	R4048		0.0108	Wt%	S	Solids Phase	RAW	Ca	1.73E+05	
AN107	Ca	5/13/94	R4047		0.0085	Wt%	G	WW-Sup	RAW	Ca	1.36E+05	
AN107	Ca	5/13/94	R4048		0.0082	Wt%	G	WW-Sup	RAW	Ca	1.31E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW105	Ca	2/24/87	T-7939	1.18	0.00324	moles/l	I	Composite	Braun	Ca	1.30E+05	
AW105	Ca	2/24/87	7939	1.245	0.00324	mol/l	G	Sludge	RAW	Ca	1.30E+05	
SY101	Ca	5/30/86	R-6396	1.33	0.00314	M	R		RAW	Ca	1.26E+05	
SY103	Ca	7/2/85	R-5257	1.5	0.0031	moles/l	S	Slurry/Solids	Braun	Ca	1.24E+05	
AN107	Ca	5/13/94	R4048		0.0077	Wt%	S	WW-ISL	RAW	Ca	1.23E+05	
AN107	Ca	6/29/90	R5887		1.80E-06	mol/g ppt	S	Rest 30 days	RAW	Ca	1.15E+05	
AN107	Ca	5/13/94	R4047		0.0071	Wt%	S	WW-ISL	RAW	Ca	1.14E+05	
AN107	Ca	6/29/90	R5887		1.69E-06	mol/g ppt	S	Rest 24 hrs	RAW	Ca	1.08E+05	
AW101	Ca	6/28/90	R-4796	1.63	0.00257	moles/l	G	Sludge/Composite	Braun	Ca	1.03E+05	
AN107	Ca	6/29/90	R5887		1.50E-06	mol/g ppt	S	Parr Bomb	RAW	Ca	9.60E+04	
AN106	Ca	2/19/87		1.22	94.16	mg/L	I		RAW	Ca	9.42E+04	
AN103	Ca	2/1/90			0.0864	g/L	R	Slurry	Wastren	Ca	8.64E+04	
AN106	Ca	2/19/87		1.22	86.24	mg/L	I		RAW	Ca	8.62E+04	
AW105	Ca	2/24/87	T-7937	1.17	0.00204	moles/l	I	Composite	Braun	Ca	8.18E+04	
AW105	Ca	2/24/87	7937	1.235	0.00204	mol/l	G	Sludge	RAW	Ca	8.16E+04	
AN107	Ca	5/13/94	R4047		0.0049	Wt%	S	Solids Phase	RAW	Ca	7.84E+04	
AW101	Ca	6/28/90	R-4798	1.56	0.00174	moles/l	G	Sludge/Composite	Braun	Ca	6.97E+04	
AW101	Ca	6/28/90	RAT-AW101-1	1.54	0.001535	moles/l	I	Composite	Braun	Ca	6.15E+04	
AW101	Ca	6/28/90	R-4795	1.54	0.00146	moles/l	G	Sludge/Composite	Braun	Ca	5.85E+04	
AZ101	Ca	9/13/85	RAT-AZ101-3B		0.00132	moles/l	S	Supernate/Solids	Braun	Ca	5.29E+04	
AW101	Ca	7/2/86	R-9896	1.53	0.00254	Wt%	R	SLURRY	RAW	Ca	3.89E+04	
AW101	Ca	6/30/86	R-9895	1.57	0.00239	Wt%	R	SLURRY	RAW	Ca	3.75E+04	
AW101	Ca	6/26/86	R-9894	1.5	0.00233	Wt%	R	SLURRY	RAW	Ca	3.50E+04	
AZ102	Ca	11/5/85	RAT-AZ102-2C	1.26	0.000863	moles/l	Y	Slurry	Braun	Ca	3.46E+04	
AW101	Ca	6/28/90			0.0331	g/L	R	Slurry	Wastren	Ca	3.31E+04	
AW101	Ca	6/23/86	R-9893	1.36	0.00237	Wt%	R	SLURRY	RAW	Ca	3.22E+04	
AW106	Ca	4/29/86	R-8587	1.24	0.00077	M	S		RAW	Ca	3.08E+04	
AW101	Ca	6/28/90	R-4797	1.56	0.000558	moles/l	G	Sludge/Composite	Braun	Ca	2.24E+04	
AW101	Ca	6/28/90	R-4800	1.555	0.000507	moles/l	G	Sludge/Composite	Braun	Ca	2.03E+04	
AW101	Ca	6/28/90	R-4799	1.555	0.000496	moles/l	G	Sludge/Composite	Braun	Ca	1.99E+04	
AW101	Ca	7/6/86	R-9897	1.53	0.00129	Wt%	R	SLURRY	RAW	Ca	1.97E+04	
AW101	Ca	6/28/90	R-4802	1.55	0.000468	moles/l	G	Sludge/Composite	Braun	Ca	1.88E+04	
AW101	Ca	6/28/90	R-4793	1.535	0.000448	moles/l	G	Sludge/Composite	Braun	Ca	1.80E+04	
AW101	Ca	6/28/90	R-4803	1.575	0.000427	moles/l	G	Sludge/Composite	Braun	Ca	1.71E+04	
AW101	Ca	6/28/90	R-4794	1.57	0.000418	moles/l	G	Sludge/Composite	Braun	Ca	1.68E+04	
AW101	Ca	6/28/90	R-4792	1.53	0.000415	moles/l	G	Sludge/Composite	Braun	Ca	1.66E+04	
AW101	Ca	6/28/90	R-4801	1.555	0.000414	moles/l	G	Sludge/Composite	Braun	Ca	1.66E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Calcium Double-Shell Tank Solids [Sketch ES-VAL-CC56]
 ASA Value: 2.58E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Ca	4/29/88	R-8469		5.3	ugm/ml	I	Composite	Braun	Ca	5.30E+03	
AZ102	Ca	10/1/90		1.49	0.082	umol/g	I		RAW	Ca	4.89E+03	
AW103	Ca	11/4/88	R-4251	1.46	0.000098	M	G	Sludge	RAW	Ca	3.92E+03	
AZ101	Ca	9/1/89		2.04	3.67E-05	mmol/g	S		RAW	Ca	2.99E+03	
AW103	Ca	11/4/88	R-4252	1.41	0.000066	M	G	Sludge	RAW	Ca	2.64E+03	
AP104	Ca	3/7/88		1.01	1.5	ppm	I		RAW	Ca	1.52E+03	
AP104	Ca	3/7/88		1.03	0.9	ppm	I		RAW	Ca	9.27E+02	
AZ101	Ca	5/1/89			0.011	umol/g	I	Core 2	RAW	Ca	7.04E+02	
AN102	Ca	8/1/91		1.74	0.1214	ug/mL	S	Na/Zr Fusion	RAW	Ca	1.21E+02	
AN102	Ca	8/1/91		1.74	0.0729	ug/mL	S	K/Ni Fusion	RAW	Ca	7.29E+01	
AZ101	Ca	1/10/86			0.0111	ppm	R		RAW	Ca	1.78E+01	
SY-102	Ca				0.002157	g-moles	S		TRAC	Ca	2.37E-01	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Liquids [Sketch ES-VAL-CC57]
 ASA Value: 7.00E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 7.00E+04 ug/L												
AN107	Cd	5/13/94	R4048 J-1815	1.349	7.00E+01	ug/mL	P	C-Cup Sample	RAW	Cd	7.00E+04	*
AN107	Cd	5/13/94	R4047 J-1812	1.345	6.90E+01	ug/mL	P	C-Cup Sample	RAW	Cd	6.90E+04	
AN107	Cd	5/13/94	R4048 J-1814	1.352	6.60E+01	ug/mL	P	C-Cup Sample	RAW	Cd	6.60E+04	
AN107	Cd	5/13/94	R4047 J-1813	1.363	6.60E+01	ug/mL	P	C-Cup Sample	RAW	Cd	6.60E+04	
AN107	Cd	2/28/85	R-3637	1.41	0.000545	moles/l	P	Supernate	Braun	Cd	6.13E+04	
AN107	Cd	3/6/85	RAT-AN107-1A		0.000545	moles/l	P	Supernate	Braun	Cd	6.13E+04	
AN107	Cd	2/28/85	R3637	1.41	5.45E-04	M	P		RAW	Cd	6.13E+04	
SY102	Cd	11/1/84	R-3316A	1.41	0.000526	moles/l	P	Supernate	Braun	Cd	5.91E+04	
AN102	Cd	2/28/85	R-3639	1.39	0.000503	moles/l	P	Supernate	Braun	Cd	5.65E+04	
AN102	Cd	2/28/85	R-3639	1.39	5.03E-04	M	P		RAW	Cd	5.65E+04	
AN102	Cd	2/28/85			5.65E-02	g/L	P	Supernate	Wastren	Cd	5.65E+04	
AN102	Cd	2/28/85	R-3640	1.39	4.48E-04	M	P		RAW	Cd	5.04E+04	
SY102	Cd	11/1/84	R-3317A	1.44	0.000313	moles/l	P	Supernate	Braun	Cd	3.52E+04	
AN107	Cd	5/13/94	R4047 J-1820	1.157	3.00E+01	ug/mL	P	Water Wash	RAW	Cd	3.00E+04	
AN107	Cd	5/13/94	R4047 J-1819	1.150	2.80E+01	ug/mL	P	Water Wash	RAW	Cd	2.80E+04	
SY102	Cd	11/1/84	R-3318A	1.42	0.000228	moles/l	P	Supernate	Braun	Cd	2.56E+04	
AN107	Cd	5/13/94	R4048 J-1818	1.141	2.00E+01	ug/mL	P	Water Wash	RAW	Cd	2.00E+04	
AN107	Cd	5/13/94	R4047 J-1821	1.349	1.60E+01	ug/mL	P	Water Wash	RAW	Cd	1.60E+04	
SY102	Cd	12/31/84	R-3326		9.24E-05	M	P		RAW	Cd	1.04E+04	
SY102	Cd	3/12/93	R3353	1.064	8.87E+00	ug/mL	O	Bottom	RAW	Cd	8.87E+03	
SY102	Cd	10/5/84	R-3038	1.06	0.000073	moles/l	P	Supernate	Braun	Cd	8.21E+03	
SY102	Cd	8/2/88	R-3038	1.06	7.30E-05	M	P		RAW	Cd	8.21E+03	
AP106	Cadmium	3/1/93	B0B2B9	0.998	7.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	7.65E+03	
AP106	Cadmium	3/1/93	B0B2C0	1	7.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	7.65E+03	
AP106	Cadmium	3/1/93	B0B2B9	0.998	7.65E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	7.65E+03	
AP106	Cadmium	3/1/93	B0B2C0	1	7.65E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	7.65E+03	
AP105	Cadmium	3/1/93	B0B3C8	1.327	7.50E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	7.50E+03	
AP105	Cadmium	3/1/93	B0B3C8	1.327	7.50E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	7.50E+03	
SY102	Cd	10/5/84	R-3037	1.03	5.87E-05	moles/l	P	Supernate	Braun	Cd	6.60E+03	
SY102	Cd	8/2/88	R-3037	1.03	5.87E-05	M	P		RAW	Cd	6.60E+03	
AP106	Cadmium	3/1/93	B0B2G2	0.997	5.92E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	5.92E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	4.38E+03	PPB	L	PRIMARY RESULT	TCD	Cd	4.79E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	4.20E+03	PPB	L	PRIMARY RESULT	TCD	Cd	4.59E+03	
AZ101	Cd	5/1/89		1.24	3.20E-02	umol/g	P	Core 2	RAW	Cd	4.46E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Liquids [Sketch ES-VAL-CC57]
 ASA Value: 7.00E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Cd	May 89			4.39E-03	g/L	P	Supernatant	Wastren	Cd	4.39E+03	
AZ101	Cd	9/1/90	RAT-AZ101-5A	1.22	0.032	umol/gm	P	Supernate	Braun	Cd	4.39E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	3.36E+03	PPB	L	PRIMARY RESULT	TCD	Cd	3.68E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	3.33E+03	PPB	L	PRIMARY RESULT	TCD	Cd	3.64E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	3.29E+03	PPB	L	PRIMARY RESULT	TCD	Cd	3.60E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	DUPLICATE RESULT	TCD	Cd	2.63E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	DUPLICATE RESULT	TCD	Cd	2.63E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	PRIMARY RESULT	TCD	Cd	2.63E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	PRIMARY RESULT	TCD	Cd	2.63E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	PRIMARY RESULT	TCD	Cd	2.63E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	2.40E+03	PPB	L	PRIMARY RESULT	TCD	Cd	2.63E+03	
AP105	Cadmium	3/1/93	B0B3D2	1.329	2.13E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	2.13E+03	
AP105	Cadmium	3/1/93	B08VX7	1.3	2.10E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	2.10E+03	
AP105	Cadmium	3/1/93	B08VX3	1.3	2.07E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.07E+03	
AP105	Cadmium	3/1/93	B0B3D1	1.334	2.02E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	2.02E+03	
AZ102	Cd	Aug 89			1.99E-03	g/L	P	Supernatant	Wastren	Cd	1.99E+03	
AP105	Cadmium	3/1/93	B0B3D1	1.334	1.97E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.97E+03	
AP105	Cadmium	3/1/93	B0B3D2	1.329	1.96E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.96E+03	
AP105	Cadmium	3/1/93	B0B3C9	1.3	1.90E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.90E+03	
AP105	Cadmium	3/1/93	B08VX3	1.3	1.87E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.87E+03	
AZ102	Cd	10/1/90			1.50E-02	umol/g	P		RAW	Cd	1.85E+03	
AZ102	Cd	9/1/93			1.50E-02	umol/g	P		RAW	Cd	1.85E+03	
AP105	Cadmium	3/1/93	B08VX6	1.34	1.85E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.85E+03	
AP105	Cadmium	3/1/93	B0B3C9	1.3	1.84E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.84E+03	
AP105	Cadmium	3/1/93	B08VX4	1.39	1.82E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.82E+03	
AP105	Cadmium	3/1/93	B08VX5	1.34	1.82E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.82E+03	
AP105	Cadmium	3/1/93	B08VX2	1.298	1.81E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.81E+03	
AP105	Cadmium	3/1/93	B08VX7	1.3	1.81E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.81E+03	
AP105	Cadmium	3/1/93	B08VX9	1.33	1.80E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.80E+03	
AP105	Cadmium	3/1/93	B08VX6	1.34	1.78E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.78E+03	
AP105	Cadmium	3/1/93	B08VX8	1.377	1.75E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.75E+03	
AP105	Cadmium	3/1/93	B08VX2	1.298	1.75E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.75E+03	
aw106	Cadmium	12/1/93	B08VS6	1.094	1.57E+03	PPB	L	PRIMARY RESULT	TCD	Cd	1.72E+03	
AP105	Cadmium	3/1/93	B08VX9	1.33	1.71E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.71E+03	
AP105	Cadmium	3/1/93	B08VX0	1.35	1.69E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.69E+03	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Liquids [Sketch ES-VAL-CC57]
 ASA Value: 7.00E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Cadmium	3/1/93	B08VX5	1.34	1.69E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.69E+03	
AP105	Cadmium	3/1/93	B08VX1	1.34	1.64E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.64E+03	
AP105	Cadmium	3/1/93	B08VX1	1.34	1.64E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.64E+03	
AP105	Cadmium	3/1/93	B08VX8	1.377	1.64E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.64E+03	
AP105	Cadmium	3/1/93	B08VX4	1.39	1.63E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.63E+03	
AP105	Cadmium	3/1/93	B08VX1	1.34	1.60E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.60E+03	
AP105	Cadmium	3/1/93	B08VX1	1.34	1.60E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.60E+03	
AP105	Cadmium	3/1/93	B08VX0	1.35	1.58E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.58E+03	
AP106	Cadmium	3/1/93	B0B2C2	0.997	1.50E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C2	0.997	1.50E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C3	0.993	1.50E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C5	0.994	1.50E+03	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C2	0.997	1.50E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C2	0.997	1.50E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C3	0.993	1.50E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2C5	0.994	1.50E+03	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+03	
AP106	Cadmium	3/1/93	B0B2G2	0.997	9.00E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	9.00E+02	
aw102	Cadmium	12/1/93	B0BC12	1.03	4.00E+02	PPB	L	DUPLICATE RESULT	TCD	Cd	4.12E+02	
aw102	Cadmium	12/1/93	B0BC12	1.03	4.00E+02	PPB	L	PRIMARY RESULT	TCD	Cd	4.12E+02	
aw102	Cadmium	12/1/93	B0BC12	1.03	4.00E+02	PPB	L	PRIMARY RESULT	TCD	Cd	4.12E+02	
aw102	Cadmium	12/1/93	B0BC12	1.03	4.00E+02	PPB	L	PRIMARY RESULT	TCD	Cd	4.12E+02	
aw102	Cadmium	12/1/93	B0BC12	1.03	4.00E+02	PPB	L	PRIMARY RESULT	TCD	Cd	4.12E+02	
AP101	Cadmium	7/1/93	B0B2G9	0.988	2.25E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	2.25E+02	
AP104	Cd	3/1/88			1.94E-04	g/L	P	Supernatant	Wastren	Cd	1.94E+02	
AP103	Cadmium	11/1/91	B0BC21	1	1.83E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.83E+02	
AP102	Cd	2/11/93		0.956764	0.189458	ppm	U		RAW	Cd	1.81E+02	
AP103	Cadmium	11/1/91	B0BC21	1	1.80E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.80E+02	
AP101	Cadmium	7/1/93	B0B2G7	0.987	1.69E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.69E+02	
AP106	Cadmium	3/1/93	B0B2B8	0.997	1.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+02	
AP106	Cadmium	3/1/93	B0B2C1	0.996	1.50E+02	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.50E+02	
AP106	Cadmium	3/1/93	B0B2B8	0.997	1.50E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+02	
AP106	Cadmium	3/1/93	B0B2C1	0.996	1.50E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.50E+02	
AP103	Cadmium	11/1/91	B0BC21	1	1.33E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.33E+02	
AW103	Cd	1/23/90			1.30E-04	g/L	P	Supernatant	Wastren	Cd	1.30E+02	
AP103	Cadmium	11/1/91	B0BC21	1	1.26E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.26E+02	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cadmium Double-Shell Tank Liquids [Sketch ES-VAL-CC57]
ASA Value: 7.00E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP103	Cadmium	11/1/91	B0BC21	1	1.25E+02	UG/L	L	DUPLICATE RESULT	TCD	Cd	1.25E+02	
AP103	Cadmium	11/1/91	B0BC21	1	1.24E+02	UG/L	L	PRIMARY RESULT	TCD	Cd	1.24E+02	
AW103	Cd	1/23/90	RAT-AW103-1B		1E-07	gm/gm	P	Supernate	Braun	Cd	1.10E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
AP103	Cadmium	11/1/91	B0BC21	1	9.70E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	9.70E+01	
AP103	Cadmium	11/1/91	B0BC21	1	8.10E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	8.10E+01	
AP103	Cadmium	11/1/91	B0BC21	1	7.45E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	7.45E+01	
AP103	Cadmium	11/1/91	B0BC21	1	6.85E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	6.85E+01	
AP103	Cadmium	11/1/91	B0BC21	1	6.45E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	6.45E+01	
AP103	Cadmium	11/1/91	B0BC21	1	4.80E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	4.80E+01	
AP107	Cadmium	8/1/93	B08W49	0.99	4.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	4.00E+01	
AP107	Cadmium	8/1/93	B08W49	0.99	4.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	4.00E+01	
AP101	Cadmium	7/1/93	B0B2G8	0.983	3.43E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	3.43E+01	
AP101	Cadmium	7/1/93	B0B2G7	0.987	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2G9	0.988	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2G9	0.988	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H0	0.986	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H0	0.986	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W48	0.99	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W49	0.99	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W50	0.991	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W50	0.991	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W51	0.99	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W52	0.987	2.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2G8	0.983	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2G9	0.988	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H0	0.986	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H0	0.986	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Liquids [Sketch ES-VAL-CC57]
 ASA Value: 7.00E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP101	Cadmium	7/1/93	B0B2H1	0.985	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W48	0.99	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W49	0.99	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W50	0.991	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W50	0.991	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W51	0.99	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	
AP107	Cadmium	8/1/93	B08W52	0.987	2.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cd	2.00E+01	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Solids [Sketch ES-VAL-CC58]
 ASA Value: 2.63E+07 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
ASA Value: 2.63E+07 ug/L													
AZ102	Cd	9/1/93			146	umol/g	S	L1	RAW	Cd	2.63E+07	*	
AZ102	Cd	10/1/90			133	umol/g	S		RAW	Cd	2.39E+07		
AZ102	Cd	9/1/93			133	umol/g	S		RAW	Cd	2.39E+07		
AZ101	Cd	5/1/89		1.84	111	umol/g	S	Core 2	RAW	Cd	2.30E+07		
AZ102	Cd	8/1/89			22.3	g/L	G	Sludge	Wastren	Cd	2.23E+07		
AZ101	Cd	9/1/90	RAT-AZ101-5B	1.62	111	umol/gm	I	Composite	Braun	Cd	2.02E+07		
AZ101	Cd	5/1/89			20.2	g/L	G	Sludge	Wastren	Cd	2.02E+07		
AZ101	CdO	9/1/89			1.35	wt %	S	core #1 Washed Solids	RAW	Cd	1.89E+07		
AZ102	Cd	9/1/93			105	umol/g	S	L2	RAW	Cd	1.89E+07		
AZ101	Cd	4/8/86			0.06	M	S		RAW	Cd	6.74E+06		
AZ102	Cd	9/1/93			32.8	umol/g	S	Washed Solids	RAW	Cd	5.90E+06		
AZ101	Cd	5/1/89		1.14	45.5	umol/g	S	Core 2	RAW	Cd	5.83E+06		
SY102	Cd	11/2/84	R-3036	2.65	0.22	wt %	S		RAW	Cd	5.83E+06		
AZ102	Cd	9/1/93			27.8	umol/g	S	L4	RAW	Cd	5.00E+06		
AZ102	Cd	10/1/90		1.11	32.8	umol/g	S		RAW	Cd	4.09E+06		
SY102	Cd	10/5/84	R-3036		0.22	wt.%	S	Solids	Braun	Cd	3.52E+06		
AZ101	Cd	2/11/91			0.0757	wt %	S	Core 3	RAW	Cd	1.21E+06		
SY102	Cd	7/1/88			0.61	mgm/gm	S		RAW	Cd	9.76E+05		
AZ101	Cd	2/11/91			0.0583	wt %	S	Core 3	RAW	Cd	9.33E+05		
AZ101	Cd	4/8/86			0.006	M	R		RAW	Cd	6.74E+05		
AY102	Cd	2/12/90	RAT-AY102-1B	1.4	0.004	mmol/gm	I	Composite	Braun	Cd	6.30E+05		
AY102	Cd	6/30/88			0.629	g/L	I	Composite	Wastren	Cd	6.29E+05		
AY102	Cd	2/1/90		1.4	414	mg/kg	S		RAW	Cd	5.80E+05		
AZ101	Cd	9/1/89		1.04	0.00864	mmol/g	S		RAW	Cd	5.53E+05		
SY102	Cd	11/1/84	R-3316B	1.53	0.0324	wt.%	S	Supernate/Solids	Braun	Cd	4.96E+05		
AY102	Cd	2/12/90		1.4	0.004	mmol/g	S	1st analysis	RAW	Cd	4.50E+05		
AY102	Cd	7/21/88	PNL12966	1.106	0.004	mmol/g	I		RAW	Cd	4.50E+05		
AY102	Cd	7/21/88	PNL12966	1.106	0.0035	mmol/g	S		RAW	Cd	3.93E+05		
AY102	Cd	2/12/90		1.4	0.0034	mmol/g	S	2nd analysis	RAW	Cd	3.82E+05		
AY102	Cd	7/21/88	PNL12966	1.106	0.0034	mmol/g	I		RAW	Cd	3.82E+05		
AY102	Cd	7/21/88	PNL12966	1.106	0.0032	M	S		RAW	Cd	3.60E+05		
SY102	Cd	1/10/88		1.54	0.282	g/l	S		RAW	Cd	2.82E+05		
SY102	Cd	1/10/85	R-3316	1.54	0.282	gm/l	S	Supernate/Solids	Braun	Cd	2.82E+05		
SY102	Cd	11/1/84	R-3318B	1.61	0.0164	wt.%	S	Supernate/Solids	Braun	Cd	2.64E+05		
SY102	Cd	11/1/84	R-3317B	1.59	0.015	wt.%	S	Supernate/Solids	Braun	Cd	2.39E+05		

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Solids [Sketch ES-VAL-CC58]
 ASA Value: 2.63E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AZ102	Cd	9/1/93			1.3	umol/g	S	L3	RAW	Cd	2.34E+05	
AN103	Cd	9/25/87	TKO92587	1.560	0.9	umole/g	Y		RAW	Cd	1.58E+05	
AN103	Cd	5/16/90			0.0014	M	G		RAW	Cd	1.57E+05	
AN102	Cd	3/14/85			0.149	g/L	G	Sludge	Wastren	Cd	1.49E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
AW103	Cd	1/23/90	RAT-AW103-1	1.75	0.00004	gm/gm	S	Solids	Braun	Cd	7.00E+04	
AW103	Cd	1/23/90			0.07	g/L	G	Sludge	Wastren	Cd	7.00E+04	
AN107	Cd	5/13/94	R4047		0.0041	Wt%	G	Sludge	RAW	Cd	6.56E+04	
AN107	Cd	5/13/94	R4048		0.0041	Wt%	G	Sludge	RAW	Cd	6.56E+04	
AW103	Cd	1/23/90	RAT-AW103-1C		0.00004	gm/gm	S	Solids	Braun	Cd	6.40E+04	
AZ102	Cd	11/5/85	RAT-AZ102-2B	1.4	0.000569	moles/l	S	Solids	Braun	Cd	6.40E+04	
AN107	Cd	5/13/94	R4047		0.0025	Wt%	G	C-Sup	RAW	Cd	4.00E+04	
AN107	Cd	5/13/94	R4048		0.0023	Wt%	G	C-Sup	RAW	Cd	3.68E+04	
AN107	Cd	5/13/94	R4048 J-1826		18	ug/g	S	Solids Analysis by Acid Digestion	RAW	Cd	2.88E+04	
AN107	Cd	5/13/94	R4048		0.0017	Wt%	G	C-Solids	RAW	Cd	2.72E+04	
AN107	Cd	5/13/94	R4047		0.0016	Wt%	G	C-Solids	RAW	Cd	2.56E+04	
AN107	Cd	5/13/94	R4047 J-1825		16	ug/g	S	Solids Analysis by Acid Digestion	RAW	Cd	2.56E+04	
AN107	Cd	5/13/94	R4047 J-1824		11	ug/g	S	Solids Analysis by Acid Digestion	RAW	Cd	1.76E+04	
AN103	Cd	2/1/90			0.016	g/L	R	Slurry	Wastren	Cd	1.60E+04	
AN107	Cd	5/13/94	R4047		0.0010	Wt%	G	WW-Sup	RAW	Cd	1.60E+04	
AN107	Cd	5/13/94	R4048		0.0010	Wt%	G	WW-Sup	RAW	Cd	1.60E+04	
AN107	Cd	5/13/94	R4048 J-1827		9	ug/g	S	Solids Analysis by Acid Digestion	RAW	Cd	1.44E+04	
AN107	Cd	5/13/94	R4048		0.0009	Wt%	S	WW-ISL	RAW	Cd	1.44E+04	
AN107	Cd	5/13/94	R4047		0.0008	Wt%	S	WW-ISL	RAW	Cd	1.28E+04	
AN107	Cd	5/13/94	R4048		0.0008	Wt%	G	WW-Solids	RAW	Cd	1.28E+04	
AN107	Cd	5/13/94	R4048		0.0008	Wt%	S	WW-Solids	RAW	Cd	1.28E+04	
AN107	Cd	5/13/94	R4047		0.0007	Wt%	G	WW-Solids	RAW	Cd	1.12E+04	
AN107	Cd	5/13/94	R4047		0.0007	Wt%	S	WW-Solids	RAW	Cd	1.12E+04	
AW101	Cd	6/28/90	RAT-AW101-1	1.54	0.0000587	moles/l	I	Composite	Braun	Cd	6.60E+03	
AP105	Cd	5/10/94		1.336	1.77	ug/mL	I		RAW	Cd	1.77E+03	
AP102	Cadmium	4/1/93	BOB2M5	1.19	1650	UG/L	S	PRIMARY RESULT	TCD	Cd	1.65E+03	
AP102	Cadmium	4/1/93	BOB2M5	1.19	1650	UG/L	S	PRIMARY RESULT	TCD	Cd	1.65E+03	
AP102	Cadmium	4/1/93	BOB2L9	1.2	1540	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.54E+03	
AP102	Cadmium	4/1/93	BOB2L9	1.2	1540	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.54E+03	
AP102	Cadmium	4/1/93	BOB2L9	1.2	1540	UG/L	S	PRIMARY RESULT	TCD	Cd	1.54E+03	
AP102	Cadmium	4/1/93	BOB2L9	1.2	1540	UG/L	S	PRIMARY RESULT	TCD	Cd	1.54E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Solids [Sketch ES-VAL-CC58]
 ASA Value: 2.63E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Cadmium	4/1/93	BOB2M4	1.2	1520	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.52E+03	
AP102	Cadmium	4/1/93	BOB2M6	1.21	1520	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.52E+03	
AP102	Cadmium	4/1/93	BOB2T9	1.2	1520	UG/L	S	PRIMARY RESULT	TCD	Cd	1.52E+03	
AP102	Cadmium	4/1/93	BOB2T9	1.2	1520	UG/L	S	PRIMARY RESULT	TCD	Cd	1.52E+03	
AP102	Cadmium	4/1/93	BOB2M7	1.2	1500	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP102	Cadmium	4/1/93	BOB2M7	1.2	1500	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP102	Cadmium	4/1/93	BOB2N2	1.6	1500	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP102	Cadmium	4/1/93	BOB2N3	1.6	1500	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.50E+03	
AP102	Cadmium	4/1/93	BOB2N3	1.6	1500	UG/L	S	PRIMARY RESULT	TCD	Cd	1.50E+03	
AP102	Cadmium	4/1/93	BOB2M5	1.19	1480	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.48E+03	
AP102	Cadmium	4/1/93	BOB2M5	1.19	1480	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.48E+03	
AP102	Cadmium	4/1/93	BOB2M2	1.2	1480	UG/L	S	PRIMARY RESULT	TCD	Cd	1.48E+03	
AP102	Cadmium	4/1/93	BOB2M2	1.2	1480	UG/L	S	PRIMARY RESULT	TCD	Cd	1.48E+03	
AP102	Cadmium	4/1/93	BOB2N4	1.2	1470	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2N4	1.2	1470	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2T9	1.2	1470	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2T9	1.2	1470	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2M0	1.2	1470	UG/L	S	PRIMARY RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2M0	1.2	1470	UG/L	S	PRIMARY RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2M1	1.21	1470	UG/L	S	PRIMARY RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2N4	1.2	1470	UG/L	S	PRIMARY RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2N4	1.2	1470	UG/L	S	PRIMARY RESULT	TCD	Cd	1.47E+03	
AP102	Cadmium	4/1/93	BOB2M1	1.21	1460	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.46E+03	
AP102	Cadmium	4/1/93	BOB2L7	1.2	1460	UG/L	S	PRIMARY RESULT	TCD	Cd	1.46E+03	
AP102	Cadmium	4/1/93	BOB2L7	1.2	1460	UG/L	S	PRIMARY RESULT	TCD	Cd	1.46E+03	
AP102	Cadmium	4/1/93	BOB2M4	1.2	1450	UG/L	S	PRIMARY RESULT	TCD	Cd	1.45E+03	
AP102	Cadmium	4/1/93	BOB2M7	1.2	1450	UG/L	S	PRIMARY RESULT	TCD	Cd	1.45E+03	
AP102	Cadmium	4/1/93	BOB2M7	1.2	1450	UG/L	S	PRIMARY RESULT	TCD	Cd	1.45E+03	
AP102	Cadmium	4/1/93	BOB2L7	1.2	1440	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.44E+03	
AP102	Cadmium	4/1/93	BOB2L7	1.2	1440	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.44E+03	
AP102	Cadmium	4/1/93	BOB2N2	1.6	1430	UG/L	S	PRIMARY RESULT	TCD	Cd	1.43E+03	
AP102	Cadmium	4/1/93	BOB2M6	1.21	1420	UG/L	S	PRIMARY RESULT	TCD	Cd	1.42E+03	
AP102	Cadmium	4/1/93	BOB2L8	1.21	1360	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.36E+03	
AP102	Cadmium	4/1/93	BOB2L8	1.21	1360	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.36E+03	
AP102	Cadmium	4/1/93	BOB2L8	1.21	1360	UG/L	S	PRIMARY RESULT	TCD	Cd	1.36E+03	
AP102	Cadmium	4/1/93	BOB2L8	1.21	1360	UG/L	S	PRIMARY RESULT	TCD	Cd	1.36E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cadmium Double-Shell Tank Solids [Sketch ES-VAL-CC58]
 ASA Value: 2.63E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Cadmium	4/1/93	B0B2M3	1.2	1340	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.34E+03	
AP102	Cadmium	4/1/93	B0B2M3	1.2	1340	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.34E+03	
AP102	Cadmium	4/1/93	B0B2M3	1.2	1330	UG/L	S	PRIMARY RESULT	TCD	Cd	1.33E+03	
AP102	Cadmium	4/1/93	B0B2M3	1.2	1330	UG/L	S	PRIMARY RESULT	TCD	Cd	1.33E+03	
AP102	Cadmium	4/1/93	B0B2M2	1.2	1310	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.31E+03	
AP102	Cadmium	4/1/93	B0B2M2	1.2	1310	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.31E+03	
AP102	Cadmium	4/1/93	B0B2M0	1.2	1300	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.30E+03	
AP102	Cadmium	4/1/93	B0B2M0	1.2	1300	UG/L	S	DUPLICATE RESULT	TCD	Cd	1.30E+03	
AZ102	Cd	10/1/90		1.49	0.005	umol/g	I		RAW	Cd	8.37E+02	
AZ101	Cd	9/1/89		2.04	1.71E-06	mmol/g	S		RAW	Cd	1.92E+02	
AZ101	Cd	5/1/89			0.001	umol/g	I	Core 2	RAW	Cd	1.80E+02	
AZ101	Cd	1/10/86			0.000861	ppm	R		RAW	Cd	1.38E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Double-Shell Tank Liquids [Sketch ES-VAL-CC59]
 ASA Value: 5.8E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY102	Ce	2/22/91			1.03E+02	ppm	P	12M	RAW	Ce	1.13E+05	32
SY102	Ce	2/22/91			6.76E+01	ppm	P	9M	RAW	Ce	7.44E+04	32
SY102	Ce	2/22/91			5.99E+01	ppm	P	6M	RAW	Ce	6.59E+04	32
ASA Value: 5.8E+04 ug/L												
AN107	Ce	5/13/94	R4048 J-181	1.352	5.80E+01	ug/mL	P	C-Cup Sample	RAW	Ce	5.80E+04	*
AN107	Ce	5/13/94	R4048 J-181	1.349	5.60E+01	ug/mL	P	C-Cup Sample	RAW	Ce	5.60E+04	
AN107	Ce	5/13/94	R4047 J-181	1.345	5.40E+01	ug/mL	P	C-Cup Sample	RAW	Ce	5.40E+04	
AN107	Ce	5/13/94	R4047 J-181	1.363	5.00E+01	ug/mL	P	C-Cup Sample	RAW	Ce	5.00E+04	
SY102	Ce	2/22/91			2.65E+01	ppm	P	3M	RAW	Ce	2.92E+04	32
SY102	Ce	7/1/88			1.70E-04	M	P		RAW	Ce	2.38E+04	
SY-103	Ce				1.86E+02	g-moles	L		TRAC	Ce	1.27E+04	
AZ102	Ce	8/1/89			1.22E-02	g/L	P	Supernatant	Wastren	Ce	1.22E+04	
Preliminary ASA Value: 1.22E+04 ug/L												
AZ102	Ce	10/1/90			7.40E-02	umol/g	P		RAW	Ce	1.14E+04	
AZ102	Ce	9/1/93			7.40E-02	umol/g	P		RAW	Ce	1.14E+04	
SY-102	Ce				1.02E+02	g-moles	L		TRAC	Ce	6.69E+03	
AY102	Ce	7/21/88	PNL12966	1.106	4.00E-05	M	L		RAW	Ce	5.60E+03	
SY-101	Ce				9.18E+01	g-moles	L		TRAC	Ce	3.00E+03	
AN101	Ce	3/27/85	T-2832		5.9E-06	M	P		RAW	Ce	8.26E+02	
AZ101	Ce	9/1/89		1.2	4.76E-06	mmol/g	L		RAW	Ce	8.00E+02	
AY102	Ce	9/30/88		1	4.00E-06	M	P		RAW	Ce	5.60E+02	
AW-106	Ce				8.03E+00	g-moles	L		TRAC	Ce	5.51E+02	
AZ-101	Ce				3.21E+00	g-moles	L		TRAC	Ce	1.49E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
AY-102	Ce				2.20E-01	g-moles	L		TRAC	Ce	3.58E+01	
AY-101	Ce				8.93E-06	g-moles	L		TRAC	Ce	4.05E-04	
AW-103	Ce				7.13E-09	g-moles	L		TRAC	Ce	2.75E-07	
AZ-102	Ce				9.50E-14	g-moles	L		TRAC	Ce	3.81E-12	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cerium Double-Shell Tank Solids [Sketch ES-VAL-CC60]
ASA Value: 2.61E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY102	Ce	2/22/91			1.05E+04	ppm	S	9M	RAW	Ce	1.68E+07	32
SY102	Ce	2/22/91			6.86E+03	ppm	S	12M	RAW	Ce	1.10E+07	32
AZ101	CeO2	9/1/89			4.60E-01	wt %	S	core #1 Washed Solids	RAW	Ce	5.99E+06	34
SY102	Ce	2/22/91			3.56E+03	ppm	S	3M	RAW	Ce	5.70E+06	34
AZ101	Ce	5/1/89		1.84	1.15E+01	umol/g	S	Core 2	RAW	Ce	2.96E+06	6
ASA Value: 2.61E+06 ug/L												
AZ101	Ce	9/1/90	RAT-AZ101-5B	1.62	11.5	umol/gm	I	Composite	Braun	Ce	2.61E+06	*
AZ101	Ce	5/1/89			2.61E+00	g/L	G	Sludge	Wastren	Ce	2.61E+06	*
AW103	Ce	12/11/88	R-4346B	1.49	0.012	mmol/gm	S	Solids	Braun	Ce	2.51E+06	
AZ101	Ce	4/8/86			1.40E-02	M	S		RAW	Ce	1.96E+06	
AY102	Ce	9/30/88		1.4	8.60E-03	mM/g	I		RAW	Ce	1.93E+06	
AZ101	Ce	9/1/89	RAT-AZ101-4B	1.7	0.008	mmol/gm	S	Supernate/Solids	Braun	Ce	1.91E+06	
AZ101	Ce	9/1/89		1.7	8.00E-03	mmol/g	S		RAW	Ce	1.90E+06	
AY102	Ce	6/30/88			1.69E+00	g/L	I	Composite	Wastren	Ce	1.69E+06	
AY102	Ce	2/12/90	RAT-AY102-1B	1.4	0.0086	mmol/gm	I	Composite	Braun	Ce	1.69E+06	
AY102	Ce	2/12/90		1.4	8.60E-03	mmol/g	S	1st analysis	RAW	Ce	1.69E+06	
AY102	Ce	9/30/88			7.10E-03	mmol/g	S		RAW	Ce	1.59E+06	
AY102	Ce	2/12/90		1.4	7.20E-03	mmol/g	S	2nd analysis	RAW	Ce	1.41E+06	
AY102	Ce	7/21/88	PNL12966	1.106	8.60E-03	mmol/g	I		RAW	Ce	1.33E+06	
AY102	Ce	7/21/88	PNL12966	1.106	7.20E-03	mmol/g	I		RAW	Ce	1.11E+06	
AY102	Ce	7/21/88	PNL12966	1.106	7.10E-03	M	S		RAW	Ce	9.94E+05	
AY102	Ce	7/21/88	PNL12966	1.106	6.20E-03	mmol/g	S		RAW	Ce	9.60E+05	
SY102	Ce	1/25/90	102SY3T4S		4.00E-03	mmol/g	S		RAW	Ce	8.96E+05	
AZ102	Ce	9/1/93			3.90E+00	umol/g	S	L2	RAW	Ce	8.74E+05	
SY102	Ce	6/30/89		1.42	4.00E-03	mmol/g	S		RAW	Ce	7.95E+05	
SY102	Ce	10/1/88			7.57E-01	g/L	G	Sludge	Wastren	Ce	7.57E+05	
SY102	Ce	10/1/88	102-SY-4B	1.8	0.003	mmol/gm	G	Sludge	Braun	Ce	7.57E+05	
SY102	Ce	6/30/89		1.8	3.00E-03	mmol/g	S		RAW	Ce	7.56E+05	
AN102	Ce	3/14/85			5.25E-01	g/L	G	Sludge	Wastren	Ce	5.25E+05	
AZ102	Ce	9/1/93			1.83E+00	umol/g	S	Washed Solids	RAW	Ce	4.10E+05	
SY102	Ce	7/1/88			2.40E-01	mgm/gm	S		RAW	Ce	3.84E+05	
AW105	Ce	2/24/87	T-7946	1.36	0.00272	moles/l	I	Composite	Braun	Ce	3.81E+05	
AW105	Ce	2/24/87	7946	1.365	2.72E-03	mol/l	G	Sludge	RAW	Ce	3.81E+05	
AZ102	Ce	10/1/90		1.11	1.83E+00	umol/g	S		RAW	Ce	2.84E+05	
AZ101	Ce	4/8/86			1.40E-03	M	R		RAW	Ce	1.96E+05	
AY101	Ce	7/20/88	8371		1.20E-03	M	S		RAW	Ce	1.68E+05	
AN107	Ce	5/13/94	R4048 J-1826		6.70E+01	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ce	1.07E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cerium Double-Shell Tank Solids [Sketch ES-VAL-CC60]
 ASA Value: 2.61E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L		
AN107	Ce	5/13/94	R4048 J-1827		6.00E+01	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ce	9.60E+04		
AN107	Ce	5/13/94	R4048		0.0054	Wt%	G	Sludge	RAW	Ce	8.64E+04		
AN107	Ce	5/13/94	R4047 J-1824		4.60E+01	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ce	7.36E+04		
AN107	Ce	5/13/94	R4047 J-1825		4.50E+01	ug/g	S	Solids Analysis by Acid Digestio	RAW	Ce	7.20E+04		
AZ102	Ce	11/5/85	RAT-AZ102-2B	1.4	0.000503	moles/l	S	Solids	Braun	Ce	7.05E+04		
AN107	Ce	5/13/94	R4047		0.0042	Wt%	G	Sludge	RAW	Ce	6.72E+04		
AN107	Ce	5/13/94	R4048		0.0034	Wt%	G	C-Solids	RAW	Ce	5.44E+04		
AN107	Ce	5/13/94	R4048		0.0029	Wt%	G	WW-Solids	RAW	Ce	4.64E+04		
AN107	Ce	5/13/94	R4048		0.0029	Wt%	S	WW-Solids	RAW	Ce	4.64E+04		
AN107	Ce	5/13/94	R4047		0.0024	Wt%	G	C-Solids	RAW	Ce	3.84E+04		
AN107	Ce	5/13/94	R4048		0.0024	Wt%	S	Solids Phase	RAW	Ce	3.84E+04		
AN107	Ce	5/13/94	R4048		0.0020	Wt%	G	C-Sup	RAW	Ce	3.20E+04		
AN107	Ce	5/13/94	R4047		0.0019	Wt%	G	C-Sup	RAW	Ce	3.04E+04		
AN107	Ce	5/13/94	R4047		0.0018	Wt%	G	WW-Solids	RAW	Ce	2.88E+04		
AN107	Ce	5/13/94	R4047		0.0018	Wt%	S	WW-Solids	RAW	Ce	2.88E+04		
AW105	Ce	2/24/87	RAT-AW105-1	1.3	0.000172	moles/l	G	Sludge/Composite	Braun	Ce	2.41E+04		
AN107	Ce	5/13/94	R4047		0.0014	Wt%	S	Solids Phase	RAW	Ce	2.24E+04		
AW105	Ce	2/24/87			2.14E-02	g/L	G	Sludge	Wastren	Ce	2.14E+04		
AN107	Ce	5/13/94	R4047 J-1819	1.150	1.50E+01	ug/mL	S	Water Wash	RAW	Ce	1.50E+04		
AN107	Ce	5/13/94	R4047 J-1820	1.157	1.50E+01	ug/mL	S	Water Wash	RAW	Ce	1.50E+04		
AN107	Ce	5/13/94	R4048		0.0005	Wt%	S	WW-ISL	RAW	Ce	8.00E+03		
AN107	Ce	5/13/94	R4047		0.0005	Wt%	G	WW-Sup	RAW	Ce	8.00E+03		
AN107	Ce	5/13/94	R4048		0.0005	Wt%	G	WW-Sup	RAW	Ce	8.00E+03		
AN107	Ce	5/13/94	R4047		0.0004	Wt%	S	WW-ISL	RAW	Ce	6.40E+03		
AZ102	Ce	10/1/90		1.49	1.10E-02	umol/g	I		RAW	Ce	2.29E+03		
AZ101	Ce	9/1/89		2.04	6.18E-06	mmol/g	S		RAW	Ce	1.77E+03		
Minimum Plot Limit: 1.00E+03 ug/L													

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Double-Shell Tank Liquids [Sketch ES-VAL-CC61]
 ASA Value: 9.1E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
Preliminary ASA Value: 1.17E+05 ug/L												38
ASA Value: 9.1E+04 ug/L												
SY101	CN-	5/1/91			9.10E-02	g/L	L	Liquid	Wastren	CN	9.10E+04	*
sy101	Cyanide	12/1/91	BOBB41	1.072	8.40E+01	MG/L	L	PRIMARY RESULT	TCD	CN	9.00E+04	
SY101	CN-	5/1/91			9.00E-02	g/L	L	Liquid	Wastren	CN	9.00E+04	
sy101	Cyanide	12/1/91	BOBB41	1.072	8.30E+01	MG/L	L	PRIMARY RESULT	TCD	CN	8.90E+04	
sy101	Cyanide	12/1/91	BOBB41	1.1	8.40E+01	MG/L	L	PRIMARY RESULT	TCD	CN	8.40E+04	
sy101	Cyanide	12/1/91	BOBB41	1.1	8.30E+01	MG/L	L	PRIMARY RESULT	TCD	CN	8.30E+04	
sy101	Cyanide	12/1/91	BOB9Z7	1.16	6.80E+01	MG/L	L	PRIMARY RESULT	TCD	CN	7.89E+04	
sy101	Cyanide	12/1/91	BOB9X3	1.267	5.50E+01	MG/L	L	PRIMARY RESULT	TCD	CN	6.97E+04	
sy101	Cyanide	12/1/91	BOB9Z7	1.16	6.00E+01	MG/L	L	PRIMARY RESULT	TCD	CN	6.96E+04	
sy101	Cyanide	12/1/91	BOB9Z7	1.1	6.80E+01	MG/L	L	PRIMARY RESULT	TCD	CN	6.80E+04	
sy101	Cyanide	12/1/91	BOB9X3	1.267	5.10E+01	MG/L	L	PRIMARY RESULT	TCD	CN	6.46E+04	
sy101	Cyanide	12/1/91	BOB9Z7	1.1	6.00E+01	MG/L	L	PRIMARY RESULT	TCD	CN	6.00E+04	
sy101	Cyanide	12/1/91	BOB9X3	1.1	5.50E+01	MG/L	L	PRIMARY RESULT	TCD	CN	5.50E+04	
sy101	Cyanide	12/1/91	BOB9X3	1.1	5.10E+01	MG/L	L	PRIMARY RESULT	TCD	CN	5.10E+04	
sy101	Cyanide	12/1/91	BOBB23	1.144	3.50E+01	MG/L	L	DUPLICATE RESULT	TCD	CN	4.00E+04	
sy101	Cyanide	12/1/91	BOBB23	1.144	3.50E+01	MG/L	L	PRIMARY RESULT	TCD	CN	4.00E+04	
sy101	Cyanide	12/1/91	BOBB23	1.1	3.50E+01	MG/L	L	DUPLICATE RESULT	TCD	CN	3.50E+04	
sy101	Cyanide	12/1/91	BOBB23	1.1	3.50E+01	MG/L	L	PRIMARY RESULT	TCD	CN	3.50E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.19	2.46E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.46E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.19	2.46E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.46E+04	
AP102	Cyanide	4/1/93	BOB2N1	1.2	2.44E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.44E+04	
AP102	Cyanide	4/1/93	BOB2N4	1.21	2.41E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.41E+04	
AP102	Cyanide	4/1/93	BOB2N4	1.21	2.41E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.41E+04	
AP102	Cyanide	4/1/93	BOB2M9	1.2	2.32E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.32E+04	
AP102	Cyanide	4/1/93	BOB2N4	1.21	2.32E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.32E+04	
AP102	Cyanide	4/1/93	BOB2N4	1.21	2.32E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.32E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.19	2.32E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.32E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.19	2.32E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	2.32E+04	
AP102	Cyanide	4/1/93	BOB2N1	1.2	2.30E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.30E+04	
AP102	Cyanide	4/1/93	BOB2M9	1.2	2.26E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.26E+04	
AP105	Cyanide	3/1/93	BOB3D1	1.334	1.94E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	1.94E+04	
AP105	Cyanide	3/1/93	BOB3D1	1.334	1.93E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	1.93E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Double-Shell Tank Liquids [Sketch ES-VAL-CC61]
 ASA Value: 9.1E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Cyanide	3/1/93	B0B3D2	1.329	1.77E+01	ug/mL	L	DUPLICATE RESULT	TCD	CN	1.77E+04	
AP105	Cyanide	3/1/93	B0B3D2	1.329	1.77E+01	ug/mL	L	PRIMARY RESULT	TCD	CN	1.77E+04	
AN106	CN	2/19/87	R-2456	1.223	13.8	ugm/ml	P	Supernate	Braun	CN	1.38E+04	
AN106	CN-	2/1/90			1.32E-02	g/L	P	Supernatant	Wastren	CN	1.32E+04	
SY102	CN	3/12/93	R3353	1.064	4.12E+00	ug/mL	O	Bottom	RAW	CN	4.12E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	3.42E+00	PPM	L	DUPLICATE RESULT	TCD	CN	3.74E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	3.39E+00	PPM	L	PRIMARY RESULT	TCD	CN	3.71E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.57E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.81E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.49E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.72E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.49E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.72E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.43E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.66E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.40E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.63E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	2.10E+00	PPM	L	PRIMARY RESULT	TCD	CN	2.30E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.38E+00	PPM	L	PRIMARY RESULT	TCD	CN	1.42E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.33E+00	PPM	L	DUPLICATE RESULT	TCD	CN	1.37E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.31E+00	PPM	L	PRIMARY RESULT	TCD	CN	1.35E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.27E+00	PPM	L	PRIMARY RESULT	TCD	CN	1.31E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.21E+00	PPM	L	PRIMARY RESULT	TCD	CN	1.25E+03	
aw102	Cyanide	12/1/93	B0BC12	1.03	1.17E+00	PPM	L	DUPLICATE RESULT	TCD	CN	1.21E+03	
AP103	Cyanide	11/1/91	B0BC21	1	1.00E+00	PPM	L	PRIMARY RESULT	TCD	CN	1.00E+03	
aw106	Cyanide	12/1/93	B08VS6	1.094	8.44E-01	PPM	L	DUPLICATE RESULT	TCD	CN	9.23E+02	
aw106	Cyanide	12/1/93	B08VS6	1.094	8.27E-01	PPM	L	PRIMARY RESULT	TCD	CN	9.05E+02	
aw106	Cyanide	12/1/93	B08VS6	1.094	7.61E-01	PPM	L	PRIMARY RESULT	TCD	CN	8.33E+02	
AP107	Cyanide	8/1/93	B08W49	0.99	6.75E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	6.75E+02	
AP107	Cyanide	8/1/93	B08W49	0.99	6.25E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	6.25E+02	
AP107	Cyanide	8/1/93	B08W51	0.99	6.20E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	6.20E+02	
AP103	Cyanide	11/1/91	B0BC21	1	6.10E-01	PPM	L	DUPLICATE RESULT	TCD	CN	6.10E+02	
AP103	Cyanide	11/1/91	B0BC21	1	6.10E-01	PPM	L	PRIMARY RESULT	TCD	CN	6.10E+02	
AP103	Cyanide	11/1/91	B0BC21	1	6.10E-01	PPM	L	PRIMARY RESULT	TCD	CN	6.10E+02	
AP103	Cyanide	11/1/91	B0BC21	1	6.00E-01	PPM	L	PRIMARY RESULT	TCD	CN	6.00E+02	
AP107	Cyanide	8/1/93	B08W51	0.99	6.00E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	6.00E+02	
AP103	Cyanide	11/1/91	B0BC21	1	5.84E-01	PPM	L	PRIMARY RESULT	TCD	CN	5.84E+02	
AP107	Cyanide	8/1/93	B08W50	0.991	5.80E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	5.80E+02	
AP107	Cyanide	8/1/93	B08W50	0.991	5.80E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	5.80E+02	
AP107	Cyanide	8/1/93	B08W48	0.99	5.75E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	5.75E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Cyanide Double-Shell Tank Liquids [Sketch ES-VAL-CC61]
ASA Value: 9.1E+04 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
AP107	Cyanide	8/1/93	B08W48	0.99	5.75E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	5.75E+02
AP103	Cyanide	11/1/91	B0BC21	1	5.52E-01	PPM	L	PRIMARY RESULT	TCD	CN	5.52E+02
AP107	Cyanide	8/1/93	B08W52	0.987	5.40E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	5.40E+02
AP107	Cyanide	8/1/93	B08W52	0.987	5.40E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	5.40E+02
AP103	Cyanide	11/1/91	B0BC21	1	5.27E-01	PPM	L	PRIMARY RESULT	TCD	CN	5.27E+02
AP103	Cyanide	11/1/91	B0BC21	1	5.11E-01	PPM	L	PRIMARY RESULT	TCD	CN	5.11E+02
AP106	Cyanide	3/1/93	B0B2G2	0.997	5.06E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	5.06E+02
AP106	Cyanide	3/1/93	B0B2G2	0.997	5.00E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	5.00E+02
AP103	Cyanide	11/1/91	B0BC21	1	4.95E-01	PPM	L	PRIMARY RESULT	TCD	CN	4.95E+02
AP103	Cyanide	11/1/91	B0BC21	1	4.69E-01	PPM	L	PRIMARY RESULT	TCD	CN	4.69E+02
AP107	Cyanide	8/1/93	B08W50	0.991	4.64E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	4.64E+02
AP107	Cyanide	8/1/93	B08W50	0.991	4.64E-01	ug/mL	L	PRIMARY RESULT	TCD	CN	4.64E+02
AP101	Cyanide	7/1/93	B0B2G9	0.988	4.60E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	4.60E+02
aw106	Cyanide	12/1/93	B0BVS6	1.094	3.70E-01	PPM	L	PRIMARY RESULT	TCD	CN	4.05E+02
AP101	Cyanide	7/1/93	B0B2G8	0.983	4.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	4.00E+02
AP101	Cyanide	7/1/93	B0B2H1	0.985	4.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	4.00E+02
AP101	Cyanide	7/1/93	B0B2H1	0.985	4.00E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	4.00E+02
SY102	CN	3/12/93	R3354	1.002	3.54E-01	ug/mL	L	no solids	RAW	CN	3.54E+02
AP101	Cyanide	7/1/93	B0B2H0	0.986	3.40E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	3.40E+02
SY102	CN	3/12/93	R3355	1	2.79E-01	ug/mL	L	no solids	RAW	CN	2.79E+02
AP101	Cyanide	7/1/93	B0B2G7	0.987	2.30E-01	ug/mL	L	DUPLICATE RESULT	TCD	CN	2.30E+02
AP104	CN-	3/1/88			1.00E-04	g/L	P	Supernatant	Wastren	CN	1.00E+02
Minimum Plot Limit: 1.00E+02 ug/L											
AW-106	Fe(CN)				3.52E-01	g-moles	L		TRAC	CN	2.90E+01
AY-101	Fe(CN)				3.60E-02	g-moles	L		TRAC	CN	1.96E+00
AZ-101	Fe(CN)				2.81E-02	g-moles	L		TRAC	CN	1.57E+00
SY-103	Fe(CN)				5.91E-03	g-moles	L		TRAC	CN	4.82E-01
SY-102	Fe(CN)				3.26E-03	g-moles	L		TRAC	CN	2.57E-01
SY-101	Fe(CN)				2.84E-03	g-moles	L		TRAC	CN	1.11E-01
AY-102	Fe(CN)				4.04E-04	g-moles	L		TRAC	CN	7.89E-02
AZ-102	Fe(CN)				9.73E-11	g-moles	L		TRAC	CN	4.68E-09
AW-103	Fe(CN)				1.39E-11	g-moles	L		TRAC	CN	6.42E-10

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cyanide Double-Shell Tank Solids [Sketch ES-VAL-CC62]
 ASA Value: 4.69E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY101	CN	10/6/92			4.69E+02	ppm	I		RAW	CN	7.50E+05	14
sy101	Cyanide	12/1/91	BOBB62	1.6	4.69E+02	ug/g	S	PRIMARY RESULT	TCD	CN	7.50E+05	14
sy101	Cyanide	12/1/91	BOBB41	1.6	4.61E+02	ug/g	S	PRIMARY RESULT	TCD	CN	7.38E+05	14
SY101	CN	10/6/92			4.09E+02	ppm	I		RAW	CN	6.54E+05	14
sy101	Cyanide	12/1/91	BOBB23	1.6	4.06E+02	ug/g	S	PRIMARY RESULT	TCD	CN	6.50E+05	14
SY101	CN	10/6/92			3.94E+02	ppm	I		RAW	CN	6.30E+05	14
SY101	CN	10/6/92			3.89E+02	ppm	I		RAW	CN	6.22E+05	14
sy101	Cyanide	12/1/91	BOBB23	1.6	3.71E+02	ug/g	S	DUPLICATE RESULT	TCD	CN	5.94E+05	14
sy101	Cyanide	12/1/91	BOBB41	1.6	3.56E+02	ug/g	S	PRIMARY RESULT	TCD	CN	5.70E+05	14
ASA Value: 4.69E+05 ug/L												
SY101	CN-	5/1/91			4.69E-01	g/L	I	Composite	Wastren	CN	4.69E+05	*
SY101	CN-	5/1/91			4.09E-01	g/L	I	Composite 4	Wastren	CN	4.09E+05	
SY101	CN-	5/1/91			3.89E-01	g/L	I	Composite 3	Wastren	CN	3.89E+05	
sy101	Cyanide	12/1/91	BOB9X3	1.6	1.60E+02	ug/g	S	DUPLICATE RESULT	TCD	CN	2.56E+05	
SY101	CN	10/6/92			1.52E+02	ppm	S		RAW	CN	2.43E+05	
sy101	Cyanide	12/1/91	BOB9X3	1.6	1.44E+02	ug/g	S	PRIMARY RESULT	TCD	CN	2.30E+05	
SY101	CN	10/6/92			1.17E+02	ppm	S		RAW	CN	1.87E+05	
sy101	Cyanide	12/1/91	BOB9Z7	1.6	1.17E+02	ug/g	S	PRIMARY RESULT	TCD	CN	1.87E+05	
AW101	CN	12/19/91		1.030E-03	0.0057	M	I		RAW	CN	1.60E+05	
SY101	CN-	5/1/91			1.52E-01	g/L	S	Solids	Wastren	CN	1.52E+05	
SY101	CN	10/6/92			9.10E+01	ppm	I		RAW	CN	1.46E+05	
SY101	CN	10/6/92			9.00E+01	ppm	I		RAW	CN	1.44E+05	
SY101	CN	10/6/92			9.00E+01	ppm	I		RAW	CN	1.44E+05	
SY101	CN-	5/1/91			1.17E-01	g/L	S	Solids	Wastren	CN	1.17E+05	
AN103	CN	9/25/87	TKO92587		8.50E-01	umole/g	Y	slurry	RAW	CN	3.81E+04	
sy101	Cyanide	12/1/91	BOBB23	1.6	3.40E+01	MG/L	S	DUPLICATE RESULT	TCD	CN	3.40E+04	
AN103	CN-	2/1/90			3.36E-02	g/L	R	Slurry	Wastren	CN	3.36E+04	
sy101	Cyanide	12/1/91	BOBB23	1.6	3.30E+01	MG/L	S	PRIMARY RESULT	TCD	CN	3.30E+04	
AW101	CN-	6/28/90			2.68E-02	g/L	R	Slurry	Wastren	CN	2.68E+04	
AW101	CN	6/28/90	RAT-AW101-1	1.54	0.00103	moles/l	I	Composite	Braun	CN	2.68E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.2	2.46E+01	ug/mL	S	DUPLICATE RESULT	TCD	CN	2.46E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.2	2.46E+01	ug/mL	S	DUPLICATE RESULT	TCD	CN	2.46E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.2	2.46E+01	ug/mL	S	PRIMARY RESULT	TCD	CN	2.46E+04	
AP102	Cyanide	4/1/93	BOB2T9	1.2	2.46E+01	ug/mL	S	PRIMARY RESULT	TCD	CN	2.46E+04	
SY-102	Fe(CN)				1.78E+01	g-moles	S		TRAC	CN	8.22E+03	
AN106	CN	2/19/87		1.22	0.0057	g/L	I		RAW	CN	5.70E+03	
AN106	CN	2/19/87		1.22	0.00548	g/L	I		RAW	CN	5.48E+03	
AP106	CN	2/14/94		9.96E-01	5.03E-01	ug/ml	I		RAW	CN	5.03E+02	
Minimum Plot Limit: 1.00E+02 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Double-Shell Tank Liquids [Sketch ES-VAL-CC63]
 ASA Value: 8.83E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AY101	Co	4/3/84	R-9281	1.099	0.0012	M	L		RAW	Co	7.19E+04	7
ASA Value: 8.83E+03 ug/L												
AZ102	Co	8/1/89			0.0088	g/L	P	Supernatant	Wastren	Co	8.83E+03	*
AZ102	Co	9/1/93			0.127	umol/g	P		RAW	Co	8.23E+03	
Minimum Plot Limit: 1.00E+01 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Cobalt Double-Shell Tank Solids [Sketch ESK-VAL-CC64]
 ASA Value: 6.52E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
ASA Value: 6.52E+05 ug/L												
AY102	Co	2/1/90		1.4	466	mg/kg	S		RAW	Co	6.52E+05	*
AZ101	Co	4/8/86			0.0007	M	S		RAW	Co	4.13E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
AZ101	Co	4/8/86			0.00007	M	R		RAW	Co	4.13E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Liquids [Sketch ES-VAL-CC65]
 ASA Value: N/A

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After additional review the WHC panel concluded that Cr + 3 probably does not exist in the liquid phase.
 No final ASA value was specified.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AN103	Cr + 3	7/2/84	R9990	1.473	0.013	M	P		RAW	Cr + 3	6.76E + 05	
AN103	Cr + 3	7/2/84	R-9991	1.473	1.30E-02	M	P		RAW	Cr + 3	6.76E + 05	
AN104	Cr + 3	7/2/84	R9991	1.464	0.013	M	P		RAW	Cr + 3	6.76E + 05	
SY102	Cr3 +	12/27/89			2.20E-02	M	P		RAW	Cr + 3	1.14E + 06	
Minimum Plot Limit: 1.00E + 03 ug/L												

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
4	Cr	11/2/84	R-3036	2.65	9.17	wt %	S		RAW	Cr +3	2.43E+08	6
AY-101	Cr				11118	g-moles	S		TRAC	Cr +3	1.53E+08	4
ASA Value: 1.47E+08 ug/L												
SY102	Cr	10/5/84	R-3036		9.17	wt.%	S	Solids	Braun	Cr	1.47E+08	*
sy101	Chromium	12/1/91	BOBBB5	1.6	82300	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.32E+08	
sy101	Chromium	12/1/91	BOBBB5	1.6	44400	ug/g	S	PRIMARY RESULT	TCD	Cr +3	7.10E+07	
SY102	Cr3+	12/27/89			1.3	M	S		RAW	Cr +3	6.76E+07	
Preliminary ASA Value: 6.76E+07 ug/L												
SY102	Cr	11/1/84	R-3318B	1.61	4.19	wt.%	S	Supernate/Solids	Braun	Cr	6.75E+07	
SY102	Cr	11/1/84	R-3316B	1.53	3.63	wt.%	S	Supernate/Solids	Braun	Cr	5.55E+07	
AZ101	Cr	9/10/84			0.013	M	S		RAW	Cr +3	5.20E+07	
SY102	Cr	11/1/84	R-3317B	1.59	2.99	wt.%	S	Supernate/Solids	Braun	Cr	4.75E+07	
SY102	Cr	2/22/91			21500	ppm	S	3M	RAW	Cr +3	3.44E+07	
SY102	Cr	1/10/88		1.54	31.7	g/l	S		RAW	Cr +3	3.17E+07	
SY102	Cr	1/10/85	R-3316	1.54	31.7	gm/l	S	Supernate/Solids	Braun	Cr	3.17E+07	
AY101	Cr	3/14/85			19300	mg/kg	S		RAW	Cr +3	3.09E+07	
SY102	Cr	1/25/90	102SY3T4S		0.316	mmol/g	S		RAW	Cr +3	2.63E+07	
SY102	Cr	10/1/88	102-SY-4B	1.8	0.28	mmol/gm	G	Sludge	Braun	Cr	2.62E+07	
SY102	Cr	10/1/88			26.2	g/L	G	Sludge	Wastren	Cr +3	2.62E+07	
SY102	Cr	6/30/89		1.8	0.255	mmol/g	S		RAW	Cr +3	2.39E+07	
SY102	Cr	1/25/90	102SY4B	1.8	0.255	mmol/g	S		RAW	Cr +3	2.39E+07	
SY102	Cr	6/30/89		1.42	0.316	mmol/g	S		RAW	Cr +3	2.33E+07	
sy101	Chromium	12/1/91	BOB271	1.63	1.2E+07	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.97E+07	
sy101	Chromium	12/1/91	BOB271	1.63	1.2E+07	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.91E+07	
sy101	Chromium	12/1/91	BOB271	1.63	1.2E+07	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.89E+07	
SY101	Cr	8/20/92			1.17	Wt%	S	Total	RAW	Cr +3	1.87E+07	
sy101	Chromium	12/1/91	BOB271	1.63	1.1E+07	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.86E+07	
SY101	Cr	8/20/92			1.01	Wt%	S	Total	RAW	Cr +3	1.62E+07	
SY101	Cr	8/20/92			0.86	Wt%	S	Total	RAW	Cr +3	1.38E+07	
sy101	Chromium	12/1/91	BOB276	1.19	1.1E+07	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.36E+07	
sy101	Chromium	12/1/91	BOBBX9	1.64	7940	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.30E+07	
sy101	Chromium	12/1/91	BOBBX9	1.64	7860	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.29E+07	
sy101	Chromium	12/1/91	BOB280	1.33	9650000	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.28E+07	
sy101	Chromium	12/1/91	BOB276	1.19	1.1E+07	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.27E+07	
sy101	Chromium	12/1/91	BOB9L9	1.659	7610	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.26E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
sy101	Chromium	12/1/91	BOB280	1.33	9420000	ug/g	S	PRIMARY RESULT	~TCD	Cr +3	1.25E+07	
sy101	Chromium	12/1/91	BOB276	1.19	1.1E+07	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.25E+07	
SY101	Cr	10/6/92			0.78	Wt%	I	Acid Digest	RAW	Cr +3	1.25E+07	
SY101	Cr	10/6/92			0.78	Wt%	I	Acid Digest	RAW	Cr +3	1.25E+07	
SY101	Cr	May 91			12.3	g/L	I	Composite	Wastren	Cr +3	1.23E+07	
sy101	Chromium	12/1/91	BOB276	1.19	1E+07	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.23E+07	
SY101	Cr	10/6/92			0.76	Wt%	I		RAW	Cr +3	1.22E+07	
SY101	Cr	10/6/92			0.75	Wt%	I	Acid Digest	RAW	Cr +3	1.20E+07	
SY101	Cr	10/6/92			0.74	Wt%	I	Acid Digest	RAW	Cr +3	1.18E+07	
sy101	Chromium	12/1/91	BOBB41	1.6	7370	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.18E+07	
sy101	Chromium	12/1/91	BOBBX9	1.64	7170	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.18E+07	
SY101	Cr	8/20/92			0.73	Wt%	S	Total	RAW	Cr +3	1.17E+07	
sy101	Chromium	12/1/91	BOBB41	1.6	7250	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.16E+07	
sy101	Chromium	12/1/91	BOBB41	1.6	7200	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.15E+07	
SY101	Cr	10/6/92			0.72	Wt%	I	Acid Digest	RAW	Cr +3	1.15E+07	
SY101	Cr	10/6/92			0.72	Wt%	I	Acid Digest	RAW	Cr +3	1.15E+07	
SY101	Cr	May 91			11.5	g/L	I	Composite 4	Wastren	Cr +3	1.15E+07	
sy101	Chromium	12/1/91	BOB280	1.33	8640000	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.15E+07	
sy101	Chromium	12/1/91	BOBB41	1.6	7130	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.14E+07	
sy101	Chromium	12/1/91	BOBBX9	1.64	6940	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.14E+07	
SY101	Cr	10/6/92			0.71	Wt%	I	Acid Digest	RAW	Cr +3	1.14E+07	
SY101	Cr	10/6/92			0.71	Wt%	I		RAW	Cr +3	1.14E+07	
SY101	Cr	8/20/92			0.70	Wt%	S	Total	RAW	Cr +3	1.12E+07	
sy101	Chromium	12/1/91	BOB280	1.33	8370000	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.11E+07	
sy101	Chromium	12/1/91	BOBB41	1.6	6930	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.11E+07	
SY101	Cr	8/20/92			0.69	Wt%	S	Total	RAW	Cr +3	1.10E+07	
SY101	Cr	8/20/92			0.689	Wt%	S	Total	RAW	Cr +3	1.10E+07	
SY101	Cr	8/20/92			0.689	Wt%	S	Total	RAW	Cr +3	1.10E+07	
sy101	Chromium	12/1/91	BOB279	1.306	8350000	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.09E+07	
SY101	Cr	10/6/92			0.68	Wt%	I	Acid Digest	RAW	Cr +3	1.09E+07	
SY101	Cr	8/20/92			0.645	Wt%	S	Total	RAW	Cr +3	1.03E+07	
SY101	Cr	8/20/92			0.645	Wt%	S	Total	RAW	Cr +3	1.03E+07	
sy101	Chromium	12/1/91	BOBBB5	1.6	6240	ug/g	S	PRIMARY RESULT	TCD	Cr +3	9.98E+06	
AW105	Cr	2/24/87	7946	1.365	0.192	mol/l	G	Sludge	RAW	Cr +3	9.98E+06	
AW105	Cr	2/24/87	T-7946	1.36	0.192	moles/l	I	Composite	Braun	Cr	9.98E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
sy101	Chromium	12/1/91	BOB279	1.306	7580000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	9.90E+06	
sy101	Chromium	12/1/91	BOB280	1.33	7430000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.88E+06	
sy101	Chromium	12/1/91	BOB280	1.33	7330000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.75E+06	
sy101	Chromium	12/1/91	BOB280	1.33	7330000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	9.75E+06	
sy101	Chromium	12/1/91	BOBB23	1.6	5970	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.55E+06	
SY101	Cr	May 91			9.4	g/L	I	Composite 3	Wastren	Cr + 3	9.40E+06	
sy101	Chromium	12/1/91	BOB279	1.306	7180000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.38E+06	
sy101	Chromium	12/1/91	BOB279	1.306	7180000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.38E+06	
SY103	Cr	5/16/90			0.18	M	G	slurry	RAW	Cr + 3	9.36E+06	
SY103	Cr	5/16/90			0.18	M	G		RAW	Cr + 3	9.36E+06	
sy101	Chromium	12/1/91	BOBB23	1.6	5800	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.28E+06	
SY101	Cr	10/6/92			0.58	Wt%	I		RAW	Cr + 3	9.28E+06	
sy101	Chromium	12/1/91	BOBB23	1.6	5760	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	9.22E+06	
sy101	Chromium	12/1/91	BOB280	1.33	6860000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.12E+06	
sy101	Chromium	12/1/91	BOBB23	1.6	5700	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	9.12E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7380000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.11E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7380000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	9.11E+06	
sy101	Chromium	12/1/91	BOB279	1.306	6890000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	9.00E+06	
sy101	Chromium	12/1/91	BOB279	1.306	6850000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.95E+06	
sy101	Chromium	12/1/91	BOB279	1.306	6810000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.89E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7200000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.89E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7200000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.89E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7130000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.81E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7130000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.81E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7070000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.73E+06	
sy101	Chromium	12/1/91	BOB282	1.235	7070000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.73E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6930000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.62E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6930000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.56E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6930000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.56E+06	
sy101	Chromium	12/1/91	BOBBB5	1.6	5330	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.53E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6900000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.52E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6900000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.52E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6840000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.51E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6760000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.35E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6760000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.35E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Chromium	12/1/91	BOB281	1.244	6680000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.31E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6640000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.26E+06	
sy101	Chromium	12/1/91	BOBBC7	1.6	5100	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.16E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6520000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.11E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6480000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.06E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6510000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.04E+06	
sy101	Chromium	12/1/91	BOB282	1.235	6510000	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	8.04E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6460000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	8.04E+06	
sy101	Chromium	12/1/91	BOB279	1.306	6050000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	7.90E+06	
sy101	Chromium	12/1/91	BOB281	1.244	6330000	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	7.87E+06	
sy101	Chromium	12/1/91	BOBBX7	1.6	4700	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	7.52E+06	
sy101	Chromium	12/1/91	BOBBX7	1.6	4640	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	7.42E+06	
sy101	Chromium	12/1/91	BOBBX7	1.6	4140	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	6.62E+06	
sy101	Chromium	12/1/91	BOBBX7	1.6	3920	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	6.27E+06	
AY102	Cr	9/30/80			0.071	mmol/g	S		RAW	Cr + 3	5.91E+06	
sy101	Chromium	12/1/91	BOBBF3	1.6	3630	ug/g	S	DUPLICATE RESULT	TCD	Cr + 3	5.81E+06	
sy101	Chromium	12/1/91	BOBBF3	1.6	3540	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	5.66E+06	
sy101	Chromium	12/1/91	BOBBD5	1.6	3500	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	5.60E+06	
AZ101	Cr	9/1/89	RAT-AZ101-4B	1.7	0.063	mmol/gm	S	Supernate/Solids	Braun	Cr	5.57E+06	
AY102	Cr	2/12/90		1.4	0.072	mmol/g	S	1st analysis	RAW	Cr + 3	5.24E+06	
AY102	Cr	9/30/88		1.4	0.072	mM/g	I		RAW	Cr + 3	5.24E+06	
AY102	Cr	2/1/90		1.4	3744	mg/kg	S		RAW	Cr + 3	5.24E+06	
AY102	Cr	2/12/90	RAT-AY102-1B	1.4	0.072	mmol/gm	I	Composite	Braun	Cr	5.24E+06	
AY102	Cr	6/30/88			5.24	g/L	I	Composite	Wastren	Cr + 3	5.24E+06	
SY102	Cr	12/27/79			0.096	M	S		RAW	Cr + 3	4.99E+06	
SY102	Cr	2/22/91			3100	ppm	S	6M	RAW	Cr + 3	4.96E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	3040	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.86E+06	
AZ101	Cr	9/1/89		1.7	0.055	mmol/g	S		RAW	Cr + 3	4.86E+06	
SY102	Cr	2/22/91			3010	ppm	S	9M	RAW	Cr + 3	4.82E+06	
AP106	Cr	2/14/94		9.96E-01	4740	ug/mL	I		RAW	Cr + 3	4.74E+06	
AZ102	Cr	9/1/93			55.2	umol/g	S	L3	RAW	Cr + 3	4.59E+06	
sy101	Chromium	12/1/91	BOB9X3	1.6	2870	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.59E+06	
AY102	Cr	2/12/90		1.4	0.063	mmol/g	S	2nd analysis	RAW	Cr + 3	4.59E+06	
SY103	Cr	5/16/90			0.088	M	G		RAW	Cr + 3	4.58E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2650	ug/g	S	PRIMARY RESULT	TCD	Cr + 3	4.24E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AY102	Cr	7/21/88	PNL12966	1.106	0.073	mmol/g	S		RAW	Cr +3	4.20E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2620	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	4.19E+06	
AY102	Cr	7/21/88	PNL12966	1.106	0.072	mmol/g	I		RAW	Cr +3	4.14E+06	
SY102	Cr	2/22/91			2510	ppm	S	12M	RAW	Cr +3	4.02E+06	
AY102	Cr	7/21/88	PNL12966	1.106	0.071	M	S		RAW	Cr +3	3.69E+06	
SY101	Cr	8/20/92			0.23	Wt%	S	Total	RAW	Cr +3	3.68E+06	
SY101	Cr	8/20/92			0.23	Wt%	S	Total	RAW	Cr +3	3.68E+06	
SY103	Cr	7/2/85	R-5256	1.35	0.07	moles/l	S	Slurry/Solids	Braun	Cr	3.64E+06	
AY102	Cr	7/21/88	PNL12966	1.106	0.063	mmol/g	I		RAW	Cr +3	3.62E+06	
sy101	Chromium	12/1/91	BOB9X3	1.6	2210	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.54E+06	
SY101	Cr	10/6/92			0.22	Wt%	S	Fusion	RAW	Cr +3	3.52E+06	
SY101	Cr	10/6/92			0.22	Wt%	S		RAW	Cr +3	3.52E+06	
AW103	Cr	1/23/90	RAT-AW103-1C		0.00218	gm/gm	S	Solids	Braun	Cr	3.49E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2170	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.47E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2160	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	3.46E+06	
SY101	Cr	10/6/92			0.21	Wt%	S	Fusion	RAW	Cr +3	3.36E+06	
SY101	Cr	May 91			3.32	g/L	S	Solids	Wastren	Cr +3	3.32E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2060	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.30E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	2030	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.25E+06	
AZ101	Cr	2/11/91			0.203	wt %	S	Core 3	RAW	Cr +3	3.25E+06	
SY101	Cr	8/20/92			0.20	Wt%	S	Total	RAW	Cr +3	3.20E+06	
SY101	Cr	8/20/92			0.20	Wt%	S	Total	RAW	Cr +3	3.20E+06	
SY101	Cr	10/6/92			0.20	Wt%	S		RAW	Cr +3	3.20E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	1930	ug/g	S	PRIMARY RESULT	TCD	Cr +3	3.09E+06	
AZ102	Cr	10/1/90			37	umol/g	S		RAW	Cr +3	3.08E+06	
AZ102	Cr	9/1/93			37	umol/g	S		RAW	Cr +3	3.08E+06	
SY101	Cr	10/6/92			0.19	Wt%	S	Fusion	RAW	Cr +3	3.04E+06	
SY101	Cr	10/6/92			0.19	Wt%	S	Fusion	RAW	Cr +3	3.04E+06	
SY101	Cr	10/6/92			0.19	Wt%	S	Fusion	RAW	Cr +3	3.04E+06	
SY101	Cr	May 91			3.02	g/L	S	Solids	Wastren	Cr +3	3.02E+06	
sy101	Chromium	12/1/91	BOB9Z7	1.6	1840	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.94E+06	
sy101	Chromium	12/1/91	BOB9X3	1.6	1810	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.90E+06	
SY101	Cr	10/6/92			0.18	Wt%	S	Fusion	RAW	Cr +3	2.88E+06	
SY101	Cr	10/6/92			0.18	Wt%	S	Fusion	RAW	Cr +3	2.88E+06	
AZ102	Cr	Aug 89			2.87	g/L	G	Sludge	Wastren	Cr +3	2.87E+06	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Cr	2/11/91			0.177	wt %	S	Core 3	RAW	Cr +3	2.83E+06	
sy101	Chromium	12/1/91	B0B9Z7	1.6	1760	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	2.82E+06	
SY103	Cr	10/29/85	R-5255	1.69	0.05	M	R		RAW	Cr +3	2.60E+06	
SY103	Cr	5/16/90			0.05	M	G		RAW	Cr +3	2.60E+06	
SY103	Cr	6/24/85	R-5255	1.69	0.05	moles/l	S	Slurry/Solids	Braun	Cr	2.60E+06	
AZ102	Cr	9/1/93			29.6	umol/g	S	L1	RAW	Cr +3	2.46E+06	
AZ102	Cr	9/1/93			28.1	umol/g	S	L4	RAW	Cr +3	2.34E+06	
sy101	Chromium	12/1/91	B0B9X3	1.6	1420	ug/g	S	PRIMARY RESULT	TCD	Cr +3	2.27E+06	
SY101	Cr	10/6/92			0.14	Wt%	S	Fusion	RAW	Cr +3	2.24E+06	
SY101	Cr	10/6/92			0.13	Wt%	S	Fusion	RAW	Cr +3	2.08E+06	
SY101	Cr	10/6/92			0.13	Wt%	S	Fusion	RAW	Cr +3	2.08E+06	
AW102	Cr	1/28/83	R5001	1.52	0.04	M	R	Slurry	RAW	Cr +3	2.08E+06	
sy101	Chromium	12/1/91	B0B9X3	1.6	1160	ug/g	S	DUPLICATE RESULT	TCD	Cr +3	1.86E+06	
AN107	Cr	5/13/94	R4047 J-1827		1160	ug/g	S	Solid Analysis by Fusion	RAW	Cr +3	1.86E+06	
AZ102	Cr	9/1/93			21.2	umol/g	S	L2	RAW	Cr +3	1.76E+06	
sy101	Chromium	12/1/91	B0B9X3	1.6	1100	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.76E+06	
AN107	Cr	5/13/94	R4048 J-1826		1050	ug/g	S	Solids Analysis by Acid Digestio	RAW	Cr +3	1.68E+06	
AN107	Cr	5/13/94	R4048 J-1827		1010	ug/g	S	Solids Analysis by Acid Digestio	RAW	Cr +3	1.62E+06	
AN107	Cr	5/13/94	R4047 J-1826		986	ug/g	S	Solid Analysis by Fusion	RAW	Cr +3	1.58E+06	
AZ101	Cr	5/1/89		1.84	16.3	umol/g	S	Core 2	RAW	Cr +3	1.56E+06	
AN102	Cr	3/14/85			1.49	g/L	G	Sludge	Wastren	Cr +3	1.49E+06	
AZ101	Cr	9/1/90	RAT-AZ101-5B	1.62	16.3	umol/gm	I	Composite	Braun	Cr	1.37E+06	
AZ101	Cr	May 89			1.37	g/L	G	Sludge	Wastren	Cr +3	1.37E+06	
AN102	Cr	3/14/85	R-3640		0.085	wt.%	S	Solids	Braun	Cr	1.36E+06	
AN107	Cr	5/13/94	R4047 J-1825		825	ug/g	S	Solid Analysis by Fusion	RAW	Cr +3	1.32E+06	
AN107	Cr	5/13/94	R4047 J-1824		808	ug/g	S	Solids Analysis by Acid Digestio	RAW	Cr +3	1.29E+06	
SY101	Cr	10/6/92			0.08	Wt%	S		RAW	Cr +3	1.28E+06	
AN107	Cr	5/13/94	R4047 J-1824		793	ug/g	S	Solid Analysis by Fusion	RAW	Cr +3	1.27E+06	
AN107	Cr	5/13/94	R4047 J-1825		750	ug/g	S	Solids Analysis by Acid Digestio	RAW	Cr +3	1.20E+06	
SY102	Cr	7/1/88			0.72	mgm/gm	S		RAW	Cr +3	1.15E+06	
sy101	Chromium	12/1/91	BOBB41	1.6	669	ug/g	S	PRIMARY RESULT	TCD	Cr +3	1.07E+06	
SY101	Cr	10/6/92			0.06	Wt%	S	Fusion	RAW	Cr +3	9.60E+05	
AN103	Cr	5/16/90			0.018	M	G		RAW	Cr +3	9.36E+05	
AY101	Cr	7/20/88	8371		0.018	M	S		RAW	Cr +3	9.36E+05	
SY102	Cr	7/1/88		1.128	0.82	mg/g	S		RAW	Cr +3	9.25E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Cr	4/8/86			0.017	M	S		RAW	Cr + 3	8.84E+05	
AN103	Cr	2/1/90			0.848	g/L	R	Slurry	Wastren	Cr + 3	8.48E+05	
AN107	Cr	5/13/94	R4048		0.0526	Wt%	G	Sludge	RAW	Cr + 3	8.42E+05	
AW105	Cr	2/24/87			0.817	g/L	G	Sludge	Wastren	Cr + 3	8.17E+05	
AW105	Cr	2/24/87	RAT-AW105-1	1.3	0.0157	moles/l	G	Sludge/Composite	Braun	Cr	8.16E+05	
AN107	Cr	5/13/94	R4048	1.473	0.053	Wt%	G		RAW	Cr + 3	7.81E+05	
AN107	Cr	5/13/94	R4048		0.0471	Wt%	G	C-Solids	RAW	Cr + 3	7.54E+05	
AN107	Cr	5/13/94	R4048		0.0451	Wt%	G	WW-Solids	RAW	Cr + 3	7.22E+05	
AN107	Cr	5/13/94	R4048		0.0451	Wt%	S	WW-Solids	RAW	Cr + 3	7.22E+05	
AZ101	Cr	9/1/89		1.7	0.00802	mmol/g	S		RAW	Cr + 3	7.09E+05	
AN107	Cr	5/13/94	R4048		0.0432	Wt%	S	Solids Phase	RAW	Cr + 3	6.91E+05	
AN103	Cr	3/28/86	R-8190	1.48	0.013	M	G		RAW	Cr + 3	6.76E+05	
AN107	Cr	6/29/90	R5887		7.91E-06	mol/g pp	S	Parr Bomb	RAW	Cr + 3	6.58E+05	
AP102	Chromium	4/1/93	BOB2L9	1.2	655000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.55E+05	
AP102	Chromium	4/1/93	BOB2L9	1.2	655000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.55E+05	
AY102	Co	2/1/90		1.4	466	mg/kg	S		RAW	Cr + 3	6.52E+05	
AP102	Chromium	4/1/93	BOB2L9	1.2	646000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.46E+05	
AP102	Chromium	4/1/93	BOB2L9	1.2	646000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.46E+05	
AP102	Chromium	4/1/93	BOB2L8	1.21	637000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.37E+05	
AP102	Chromium	4/1/93	BOB2L8	1.21	637000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.37E+05	
AP102	Chromium	4/1/93	BOB2M6	1.21	635000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.35E+05	
AP102	Chromium	4/1/93	BOB2L8	1.21	634000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.34E+05	
AP102	Chromium	4/1/93	BOB2L8	1.21	634000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.34E+05	
AP102	Chromium	4/1/93	BOB2N2	1.6	632000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.32E+05	
AP102	Chromium	4/1/93	BOB2M5	1.19	631000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.31E+05	
AP102	Chromium	4/1/93	BOB2M5	1.19	631000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.31E+05	
AP102	Chromium	4/1/93	BOB2T9	1.2	631000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.31E+05	
AP102	Chromium	4/1/93	BOB2T9	1.2	631000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.31E+05	
AP102	Chromium	4/1/93	BOB2N3	1.6	629000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.29E+05	
AP102	Chromium	4/1/93	BOB2M7	1.2	628000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.28E+05	
AP102	Chromium	4/1/93	BOB2M7	1.2	628000	UG/L	S	DUPLICATE RESULT	TCD	Cr + 3	6.28E+05	
AP102	Chromium	4/1/93	BOB2M0	1.2	627000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.27E+05	
AP102	Chromium	4/1/93	BOB2M0	1.2	627000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.27E+05	
AP102	Chromium	4/1/93	BOB2N4	1.2	625000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.25E+05	
AP102	Chromium	4/1/93	BOB2N4	1.2	625000	UG/L	S	PRIMARY RESULT	TCD	Cr + 3	6.25E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP102	Chromium	4/1/93	BOB2M1	1.21	624000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.24E+05	
AZ101	Cr	4/8/86			0.012	M	R		RAW	Cr +3	6.24E+05	
AP102	Chromium	4/1/93	BOB2L7	1.2	622000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.22E+05	
AP102	Chromium	4/1/93	BOB2L7	1.2	622000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.22E+05	
AP102	Chromium	4/1/93	BOB2N4	1.2	621000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.21E+05	
AP102	Chromium	4/1/93	BOB2N4	1.2	621000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.21E+05	
AP102	Chromium	4/1/93	BOB2M7	1.2	619000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.19E+05	
AP102	Chromium	4/1/93	BOB2M7	1.2	619000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.19E+05	
AP102	Chromium	4/1/93	BOB2N3	1.6	619000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.19E+05	
AP102	Chromium	4/1/93	BOB2N2	1.6	618000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.18E+05	
AP102	Chromium	4/1/93	BOB2M2	1.2	616000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.16E+05	
AP102	Chromium	4/1/93	BOB2M2	1.2	616000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.16E+05	
AP102	Chromium	4/1/93	BOB2T9	1.2	615000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.15E+05	
AP102	Chromium	4/1/93	BOB2T9	1.2	615000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.15E+05	
AP102	Chromium	4/1/93	BOB2M1	1.21	614000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.14E+05	
AP102	Chromium	4/1/93	BOB2M4	1.2	611000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.11E+05	
AP102	Chromium	4/1/93	BOB2M4	1.2	609000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.09E+05	
AP102	Chromium	4/1/93	BOB2M3	1.2	608000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.08E+05	
AP102	Chromium	4/1/93	BOB2M3	1.2	608000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.08E+05	
AN107	Cr	5/13/94	R4047		0.0380	Wt%	G	Sludge	RAW	Cr +3	6.08E+05	
AP102	Chromium	4/1/93	BOB2M0	1.2	605000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.05E+05	
AP102	Chromium	4/1/93	BOB2M0	1.2	605000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.05E+05	
AP102	Chromium	4/1/93	BOB2L7	1.2	604000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.04E+05	
AP102	Chromium	4/1/93	BOB2L7	1.2	604000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.04E+05	
AP102	Chromium	4/1/93	BOB2M6	1.21	604000	UG/L	S	PRIMARY RESULT	TCD	Cr +3	6.04E+05	
AP102	Chromium	4/1/93	BOB2M2	1.2	603000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.03E+05	
AP102	Chromium	4/1/93	BOB2M2	1.2	603000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.03E+05	
AP102	Chromium	4/1/93	BOB2M5	1.19	602000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.02E+05	
AP102	Chromium	4/1/93	BOB2M5	1.19	602000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	6.02E+05	
AZ102	Cr	9/1/93			7.16	umol/g	S	Washed Solids	RAW	Cr +3	5.96E+05	
AP102	Chromium	4/1/93	BOB2M3	1.2	591000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	5.91E+05	
AP102	Chromium	4/1/93	BOB2M3	1.2	591000	UG/L	S	DUPLICATE RESULT	TCD	Cr +3	5.91E+05	
AN107	Cr	5/13/94	R4047	1.464	0.038	Wt%	G		RAW	Cr +3	5.56E+05	
AW104	Cr	4/29/86	R-8586	1.8	0.0103	M	R		RAW	Cr +3	5.36E+05	
AN107	Cr	5/13/94	R4047		0.0325	Wt%	G	C-Solids	RAW	Cr +3	5.20E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AZ101	Cr	3/11/88	T-3494		0.01	M	S		RAW	Cr + 3	5.20E+05	
AZ101	Cr	10/1/87	RAT-AZ101-6B		0.01	moles/l	G	Sludge/Composite	Braun	Cr	5.20E+05	
AN107	Cr	6/29/90	R5887		6.17E-06	mol/g pp	S	Parr Bomb	RAW	Cr + 3	5.13E+05	
AN107	Cr	5/13/94	R4047		0.0308	Wt%	G	WW-Solids	RAW	Cr + 3	4.93E+05	
AN107	Cr	5/13/94	R4047		0.0308	Wt%	S	WW-Solids	RAW	Cr + 3	4.93E+05	
AW105	Cr	2/24/87	7942	1.57	0.00922	mol/l	G	Sludge	RAW	Cr + 3	4.79E+05	
AW105	Cr	2/24/87	T-7942	1.41	0.00922	moles/l	I	Composite	Braun	Cr	4.79E+05	
AZ101	Cr	9/1/89		2.04	0.00451	mmol/g	S		RAW	Cr + 3	4.78E+05	
AN107	Cr	5/13/94	R4047		0.0294	Wt%	S	Solids Phase	RAW	Cr + 3	4.70E+05	
AN107	Cr	6/29/90	R5887		5.24E-06	mol/g pp	S	Rest 30 days	RAW	Cr + 3	4.36E+05	
AZ101	Cr	9/1/89		1.04	0.00803	mmol/g	S		RAW	Cr + 3	4.34E+05	
AZ102	Cr	10/1/90		1.11	7.16	umol/g	S		RAW	Cr + 3	4.13E+05	
AW101	Cr	6/28/90	R-4795	1.54	0.00717	moles/l	G	Sludge/Composite	Braun	Cr	3.73E+05	
SY101	Cr	10/6/92			0.022	Wt%	I		RAW	Cr + 3	3.52E+05	
SY102	Cr	11/8/84		1.2	0.0279	wt %	S		RAW	Cr + 3	3.35E+05	
AW103	Cr	12/11/88	R-4346B	1.49	0.004	mmol/gm	S	Solids	Braun	Cr	3.10E+05	
AZ102	Cr	11/5/85	RAT-AZ102-2B	1.4	0.00529	moles/l	S	Solids	Braun	Cr	2.75E+05	
AW101	Cr	6/28/90	RAT-AW101-1	1.54	0.00458	moles/l	I	Composite	Braun	Cr	2.38E+05	
AZ101	Cr	5/1/89			2.77	umol/g	I	Core 2	RAW	Cr + 3	2.30E+05	
AZ102	Cr	10/1/90		1.49	2.88	umol/g	I		RAW	Cr + 3	2.23E+05	
AW101	Cr	6/28/90	R-4796	1.63	0.00426	moles/l	G	Sludge/Composite	Braun	Cr	2.22E+05	
AZ101	Cr	5/1/89		1.14	3.54	umol/g	S	Core 2	RAW	Cr + 3	2.10E+05	
SY101	Cr	10/6/92			0.013	Wt%	I		RAW	Cr + 3	2.08E+05	
AW105	Cr	5/1/86	RAT-AW105-2B	1.2	170	ugm/gm	G	Sludge	Braun	Cr	2.04E+05	
AW106	Cr	4/29/86	R-8587	1.24	0.00388	M	S		RAW	Cr + 3	2.02E+05	
AW105	Cr	2/24/87	7941	1.4	0.00387	mol/l	G	Sludge	RAW	Cr + 3	2.01E+05	
AW105	Cr	2/24/87	T-7941	1.34	0.00387	moles/l	I	Composite	Braun	Cr	2.01E+05	
AZ102	Cr	10/1/90		1.49	2.5	umol/g	I		RAW	Cr + 3	1.94E+05	
AW101	Cr	6/28/90	R-4798	1.56	0.00372	moles/l	G	Sludge/Composite	Braun	Cr	1.93E+05	
AP105	Cr	5/10/94		1.336	187	ug/mL	I		RAW	Cr + 3	1.87E+05	
AN107	Cr	6/29/90	R5887		2.11E-06	mol/g pp	S	Rest 24 hrs	RAW	Cr + 3	1.76E+05	
AN107	Cr	6/29/90	R5887		2.10E-06	mol/g pp	S	Rest 30 days	RAW	Cr + 3	1.75E+05	
AW105	Cr	2/24/87	7940	1.37	0.0033	mol/l	G	Sludge	RAW	Cr + 3	1.72E+05	
AW105	Cr	2/24/87	T-7940	1.43	0.0033	moles/l	I	Composite	Braun	Cr	1.72E+05	
AW101	Cr	6/28/90			0.161	g/L	R	Slurry	Wastren	Cr + 3	1.61E+05	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AW101	Cr	6/28/90	R-4803	1.575	0.00267	moles/l	G	Sludge/Composite	Braun	Cr	1.39E+05	
AW101	Cr	6/28/90	R-4799	1.555	0.00263	moles/l	G	Sludge/Composite	Braun	Cr	1.37E+05	
AW101	Cr	6/28/90	R-4792	1.53	0.00246	moles/l	G	Sludge/Composite	Braun	Cr	1.28E+05	
AW101	Cr	6/28/90	R-4797	1.56	0.00245	moles/l	G	Sludge/Composite	Braun	Cr	1.27E+05	
AW101	Cr	6/28/90	R-4800	1.555	0.00243	moles/l	G	Sludge/Composite	Braun	Cr	1.26E+05	
AW101	Cr	6/28/90	R-4794	1.57	0.00242	moles/l	G	Sludge/Composite	Braun	Cr	1.26E+05	
AW101	Cr	6/28/90	R-4793	1.535	0.00239	moles/l	G	Sludge/Composite	Braun	Cr	1.24E+05	
AW105	Cr	2/24/87	7939	1.245	0.00227	mol/l	G	Sludge	RAW	Cr + 3	1.18E+05	
AW101	Cr	6/28/90	R-4801	1.555	0.00227	moles/l	G	Sludge/Composite	Braun	Cr	1.18E+05	
AW105	Cr	2/24/87	T-7939	1.18	0.00227	moles/l	I	Composite	Braun	Cr	1.18E+05	
AZ102	Cr	11/5/85	RAT-AZ102-2C	1.26	0.00227	moles/l	Y	Slurry	Braun	Cr	1.18E+05	
AW101	Cr	6/28/90	R-4802	1.55	0.00221	moles/l	G	Sludge/Composite	Braun	Cr	1.15E+05	
AW103	Cr	1/23/90	RAT-AW103-1	1.75	6.2E-05	gm/gm	S	Solids	Braun	Cr	1.09E+05	
AW105	Cr	2/24/87	7937	1.235	0.00202	mol/l	G	Sludge	RAW	Cr + 3	1.05E+05	
AW105	Cr	2/24/87	T-7937	1.17	0.00202	moles/l	I	Composite	Braun	Cr	1.05E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
SY101	Cr	5/30/86	R-6396	1.33	0.00189	M	R		RAW	Cr + 3	9.83E+04	
SY101	Cr	10/6/92			0.006	Wt%	I		RAW	Cr + 3	9.60E+04	
SY103	Cr	7/2/85	R-5257	1.5	0.00173	moles/l	S	Slurry/Solids	Braun	Cr	9.00E+04	
AN107	Cr	5/13/94	R4047		0.0055	Wt%	G	C-Sup	RAW	Cr + 3	8.80E+04	
AN107	Cr	5/13/94	R4048		0.0055	Wt%	G	C-Sup	RAW	Cr + 3	8.80E+04	
AW101	Cr	6/30/86	R-9895	1.57	0.0051	Wt%	R	SLURRY	RAW	Cr + 3	8.01E+04	
SY101	Cr	8/20/92			0.005	Wt%	S	VI	RAW	Cr + 3	8.00E+04	
SY101	Cr	8/20/92			0.005	Wt%	S	VI	RAW	Cr + 3	8.00E+04	
SY101	Cr	10/6/92			0.005	Wt%	I		RAW	Cr + 3	8.00E+04	
AW101	Cr	7/2/86	R-9896	1.53	0.00469	Wt%	R	SLURRY	RAW	Cr + 3	7.18E+04	
AW101	Cr	6/26/86	R-9894	1.5	0.00389	Wt%	R	SLURRY	RAW	Cr + 3	5.84E+04	
AW103	Cr	11/4/88	R-4251	1.46	0.0011	M	G	Sludge	RAW	Cr + 3	5.72E+04	
AZ101	Cr	9/13/85	RAT-AZ101-3B		0.00096	moles/l	S	Supernate/Solids	Braun	Cr	4.99E+04	
SY101	Cr	5/30/86	R-6395	1.29	0.00093	M	R		RAW	Cr + 3	4.81E+04	
SY101	Cr	5/30/86	R-6395	1.17	0.00093	moles/l	Y	Slurry	Braun	Cr	4.81E+04	
SY101	Cr	5/30/86	R-6395	1.29	0.00093	moles/l	Y	Slurry	Braun	Cr	4.81E+04	
SY101	Cr	5/18/90			0.00092	M	G		RAW	Cr + 3	4.78E+04	
AW101	Cr	7/6/86	R-9897	1.53	0.00274	Wt%	R	SLURRY	RAW	Cr + 3	4.19E+04	
AZ101	Co	4/8/86			0.0007	M	S		RAW	Cr + 3	4.13E+04	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +3 Double-Shell Tank Solids [Sketch ES-VAL-CC66]
 ASA Value: 1.47E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AN107	Cr	6/29/90	R5887		4.36E-07	mol/g pp	S	Rest 24 hrs	RAW	Cr + 3	3.63E + 04	
SY101	Cr	5/30/86	R-6394	1.69	0.00066	M	R		RAW	Cr + 3	3.43E + 04	
SY101	Cr	5/18/90			0.00066	M	G		RAW	Cr + 3	3.43E + 04	
SY101	Cr	5/30/86	R-6394	1.69	0.00066	moles/l	Y	Slurry	Braun	Cr	3.43E + 04	
AY101	Cr	2/28/85	R-3642	1.12	0.00065	moles/l	S	Supernate/Solids	Braun	Cr	3.40E + 04	
AW101	Cr	6/23/86	R-9893	1.36	0.00247	Wt%	R	SLURRY	RAW	Cr + 3	3.36E + 04	
AN107	Cr	5/13/94	R4048		0.0020	Wt%	G	WW-Sup	RAW	Cr + 3	3.20E + 04	
AN107	Cr	5/13/94	R4048		0.0019	Wt%	S	WW-ISL	RAW	Cr + 3	3.04E + 04	
AN107	Cr	5/13/94	R4047		0.0017	Wt%	G	WW-Sup	RAW	Cr + 3	2.72E + 04	
AN107	Cr	5/13/94	R4047		0.0014	Wt%	S	WW-ISL	RAW	Cr + 3	2.24E + 04	
AW103	Cr	11/4/88	R-4252	1.41	0.00032	M	G	Sludge	RAW	Cr + 3	1.66E + 04	
SY101	Cr	8/20/92			0.001	Wt%	S	VI	RAW	Cr + 3	1.60E + 04	
SY101	Cr	8/20/92			0.001	Wt%	S	VI	RAW	Cr + 3	1.60E + 04	
AZ101	Co	4/8/86			0.00007	M	R		RAW	Cr + 3	4.13E + 03	
AP102	Cr	4/29/88	R-8469		1.7	ugm/ml	I	Composite	Braun	Cr	1.70E + 03	
AN102	Cr	8/1/91		1.74	0.2262	ug/mL	S	Na/Zr Fusion	RAW	Cr + 3	2.26E + 02	
AN102	Cr	8/1/91		1.74	0.2229	ug/mL	S	K/Ni Fusion	RAW	Cr + 3	2.23E + 02	
AZ101	Cr	1/10/86			0.0115	ppm	R		RAW	Cr + 3	1.84E + 01	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AY101	Cr	3/14/85		1.12	3.40E+04	mg/L	L		RAW	Cr+6	3.40E+07	13
sy101	Chromium	12/1/91	BOBB62	1.1	7.72E+03	ug/g	L	PRIMARY RESULT	TCD	Cr+6	8.49E+06	33
sy101	Chromium	12/1/91	BOBB62	1.1	7.47E+03	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	8.22E+06	33
SY102	Cr	2/22/91			5.26E+03	ppm	P	12M	RAW	Cr+6	5.79E+06	32
SY102	Cr	2/22/91			5.04E+03	ppm	P	6M	RAW	Cr+6	5.54E+06	32
SY102	Cr	2/22/91			5.01E+03	ppm	P	9M	RAW	Cr+6	5.51E+06	32
ASA Value: 3.6E+06 ug/L												
SY103	Cr	12/30/88		1.54	4.60E-05	m/g	L		RAW	Cr+6	3.68E+06	8*
SY103	Cr	10/29/85	R-5256	1.35	7.00E-02	M	F		RAW	Cr+6	3.64E+06	8*
SY103	Cr	6/1/85			3.64E+00	g/L	U	Middle	Wastren	Cr+6	3.64E+06	8*
SY103	Cr	5/16/90			7.00E-02	M	P		RAW	Cr+6	3.64E+06	8*
SY103	Cr	6/1/85			2.60E+00	g/L	U	Top	Wastren	Cr+6	2.60E+06	
SY102	Cr	2/22/91			1.79E+03	ppm	P	3M	RAW	Cr+6	1.97E+06	
AW102	Cr	1/28/83	R5001	1.36E+00	2.90E-02	M	O		RAW	Cr+6	1.51E+06	
SY102	Cr	11/1/84	R-3318A	1.42	0.023	moles/l	P	Supernate	Braun	Cr	1.20E+06	
SY102	Cr	11/1/84	R-3317A	1.44	0.0225	moles/l	P	Supernate	Braun	Cr	1.17E+06	
SY102	Cr	11/1/84	R-3316A	1.41	0.0222	moles/l	P	Supernate	Braun	Cr	1.15E+06	
AN106	Cr	7/21/87	R-2089	1.344	2.20E-02	M	P		RAW	Cr+6	1.14E+06	
AN106	Cr	2/19/87	R-2089	1.344	0.022	moles/l	P	Supernate	Braun	Cr	1.14E+06	
AZ102	Cr	8/1/89			1.04E+00	g/L	P	Supernatant	Wastren	Cr+6	1.04E+06	
AN106	Cr	2/19/87	R-2090	1.32	0.019	moles/l	P	Supernate	Braun	Cr	9.88E+05	
AZ102	Cr	10/1/90			1.69E+01	umol/g	P		RAW	Cr+6	9.67E+05	
AZ102	Cr	9/1/93			1.69E+01	umol/g	P		RAW	Cr+6	9.67E+05	
AN106	Cr	2/19/87	R-2456	1.223	0.016	moles/l	P	Supernate	Braun	Cr	8.32E+05	
AZ101	Cr	9/1/89		1.2	1.30E-02	mmol/g	P		RAW	Cr+6	8.11E+05	
AZ101	Cr	9/1/89	RAT-AZ101-4A	1.2	0.013	mmol/gm	P	Supernate	Braun	Cr	8.11E+05	
AP102	Chromium	4/1/93	BOB2T9	1.19	7.16E+05	UG/L	L	PRIMARY RESULT	TCD	Cr+6	7.16E+05	
AP102	Chromium	4/1/93	BOB2T9	1.19	7.16E+05	UG/L	L	PRIMARY RESULT	TCD	Cr+6	7.16E+05	
AP102	Chromium	4/1/93	BOB2T9	1.19	7.08E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	7.08E+05	
AP102	Chromium	4/1/93	BOB2T9	1.19	7.08E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	7.08E+05	
AZ101	Cr	3/11/88	T-3494		1.30E-02	M	P		RAW	Cr+6	6.76E+05	
AN104	Cr	7/2/84			6.76E-01	g/L	P	Supernatant	Wastren	Cr+6	6.76E+05	
AZ101	Cr	9/1/89		1.2	1.03E-02	mmol/g	L		RAW	Cr+6	6.43E+05	
AN106	Cr	2/1/90			6.12E-01	g/L	P	Supernatant	Wastren	Cr+6	6.12E+05	
AZ101	Cr	9/1/89		1.2	9.80E-03	mmol/g	P		RAW	Cr+6	6.12E+05	
AZ101	CrO4	9/1/89	RAT-AZ101-4A	1.2	0.0098	mmol/gm	P	Supernate	Braun	Cr+6	6.11E+05	
AZ101	Cr	1/10/86		1.170	1.12E-02	M	P		RAW	Cr+6	5.82E+05	
AZ101	Cr	11/18/85	RAT-AZ101-1	1.17	0.0112	moles/l	P	Supernate	Braun	Cr	5.82E+05	
AZ101	Cr	4/8/86			1.10E-02	M	P		RAW	Cr+6	5.72E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Cr	5/1/89		1.24	8.29E+00	umol/g	P	Core 2	RAW	Cr+6	5.35E+05	
AZ101	Cr	5/1/89			5.26E-01	g/L	P	Supernatant	Wastren	Cr+6	5.26E+05	
AZ101	Cr	9/1/90	RAT-AZ101-5A	1.22	8.29	umol/gm	P	Supernate	Braun	Cr	5.26E+05	
AN102	Cr	2/28/85	R-3640	1.39	1.01E-02	M	P		RAW	Cr+6	5.25E+05	
AZ101	Cr	8/7/86	R9964/R0247	1.2	0.01	moles/l	P	Supernate	Braun	Cr	5.20E+05	
SY103	Cr	12/30/88		1.2	7.92E-06	m/g	P		RAW	Cr+6	4.94E+05	
SY102	Cr	11/1/88		1.18	8.00E-03	M	L	3 + Upper 4	RAW	Cr+6	4.16E+05	
AN102	Cr	2/28/85			4.14E-01	g/L	P	Supernate	Wastren	Cr+6	4.14E+05	
AN102	Cr	2/28/85	R-3639	1.39	7.96E-03	M	P		RAW	Cr+6	4.14E+05	
SY102	Cr	1/4/89	R-4332	1.18	7.96E-03	M	L		RAW	Cr+6	4.14E+05	
AN102	Cr	2/28/85	R-3639	1.39	0.00796	moles/l	P	Supernate	Braun	Cr	4.14E+05	
SY102	Cr	6/30/89		1.29	6.00E-03	mmol/g	P		RAW	Cr+6	4.02E+05	
AZ101	Cr	9/13/85		1.17	7.71E-03	M	P		RAW	Cr+6	4.01E+05	
AZ101	Cr	9/13/85	RAT-AZ101-3A	1.17	0.00771	moles/l	P	Supernate	Braun	Cr	4.01E+05	
AN102	Cr	8/1/91		1.35	3.99E+02	ug/mL	P		RAW	Cr+6	3.99E+05	
AW-101	Chromium	6/28/90	16C/4a	1.55	7.40E-03	M	L	387 In from the bottom	RAW	Cr+6	3.85E+05	
AW-101	Chromium	6/28/90	16C/4b	1.53	6.94E-03	M	L	387 In from the bottom	RAW	Cr+6	3.61E+05	
SY102	Cr	1/25/90	102SY3T4L		6.00E-03	mmol/g	P		RAW	Cr+6	3.43E+05	
AN106	Cr	7/21/87	R-2088	1.142	6.14E-03	M	P		RAW	Cr+6	3.19E+05	
AN106	Cr	2/19/87	R-2088	1.142	0.00614	moles/l	P	Supernate	Braun	Cr	3.19E+05	
AZ101	Cr	12/28/83			6.00E-03	M	L		RAW	Cr+6	3.12E+05	
AZ102	CrO4	8/1/89			2.77E-01	g/L	P	Supernatant	Wastren	Cr+6	2.77E+05	
AN107	Cr	2/28/85	R3638	1.35	5.14E-03	M	P		RAW	Cr+6	2.67E+05	
AN107	Cr	2/28/85	R-3638	1.35	0.00514	moles/l	L	Liquor	Braun	Cr	2.67E+05	
AY102	Cr	7/21/88	PNL12966	1.106	5.10E-03	M	L		RAW	Cr+6	2.65E+05	
AY102	Cr	9/30/80			4.60E-03	M	L		RAW	Cr+6	2.39E+05	
AY102	Cr	7/21/88	PNL12966	1.106	4.60E-03	M	L		RAW	Cr+6	2.39E+05	
AN107	Cr	3/6/85	RAT-AN107-1B		0.0046	moles/l	P	Supernate	Braun	Cr	2.39E+05	
AW-101	Chromium	6/28/90	10A/5a	1.67	4.48E-03	M	L	55 In from the bottom	RAW	Cr+6	2.33E+05	
AN107	Cr	2/28/85	R3637	1.41	4.42E-03	M	P		RAW	Cr+6	2.30E+05	
AN107	Cr	2/28/85	R-3637	1.41	0.00442	moles/l	P	Supernate	Braun	Cr	2.30E+05	
AN107	Cr	3/6/85	RAT-AN107-1A		0.00442	moles/l	P	Supernate	Braun	Cr	2.30E+05	
AP105	Chromium	3/1/93	B08VX4	1.39	2.28E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	2.28E+05	
SY101	Hexavalent Chromium	12/1/91	BOB281	1.85	1.19E+02	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	2.20E+05	
AZ102	Cr	2/4/85	R-3700	1.11	0.00418	moles/l	P	Supernate	Braun	Cr	2.17E+05	
SY101	Hexavalent Chromium	12/1/91	BOB281	1.85	1.16E+02	ug/g	L	PRIMARY RESULT	TCD	Cr+6	2.15E+05	
AZ102	Cr	2/4/85	R-3699	1.11	0.00411	moles/l	P	Supernate	Braun	Cr	2.14E+05	
AW-101	Chromium	6/28/90	10A/5b	1.58	4.04E-03	M	L	55 In from the bottom	RAW	Cr+6	2.10E+05	
AP105	Chromium	3/1/93	B08VX4	1.39	2.10E+05	UG/L	L	PRIMARY RESULT	TCD	Cr+6	2.10E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Chromium	3/1/93	B08VX8	1.377	2.09E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	2.09E+05	
AW-101	Chromium	6/28/90	10A/7a	1.56	3.96E-03	M	L	251 In from the bottom	RAW	Cr+6	2.06E+05	
AP105	Chromium	3/1/93	B08VX8	1.377	2.04E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	2.04E+05	
AP105	Chromium	3/1/93	B08VX6	1.34	2.01E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	2.01E+05	
AP105	Chromium	3/1/93	B0B3C8	1.327	2.01E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	2.01E+05	
AP105	Chromium	3/1/93	B0B3D2	1.329	1.99E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.99E+05	
AW102	Cr	3/10/86	R-8586	1.22	3.80E-03	M	L	No Solids	RAW	Cr +6	1.98E+05	
AP105	Chromium	3/1/93	B08VX5	1.34	1.97E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.97E+05	
AP105	Chromium	3/1/93	B0B3C8	1.327	1.97E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.97E+05	
AP105	Chromium	3/1/93	B0B3D1	1.334	1.95E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.95E+05	
AP105	Chromium	3/1/93	B08VX6	1.34	1.94E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.94E+05	
AP105	Chromium	3/1/93	B0B3D1	1.334	1.93E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.93E+05	
AP105	Chromium	3/1/93	B0B3D2	1.329	1.92E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.92E+05	
sy101	Chromium	12/1/91	B0B282	1.24	9.63E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.91E+05	
AP105	Chromium	3/1/93	B08VX5	1.34	1.91E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.91E+05	
AP105	Chromium	3/1/93	B08VX9	1.33	1.89E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.89E+05	
sy101	Chromium	12/1/91	B0B282	1.24	9.45E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.87E+05	
SY101	Cr	8/20/92			0.017	Wt%	L	VI	RAW	Cr +6	1.87E+05	
AZ101	CrO4	5/1/89			1.87E-01	g/L	P	Supernatant	Wastren	Cr +6	1.87E+05	
AP105	Chromium	3/1/93	B08VX9	1.33	1.86E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.86E+05	
AP105	Chromium	3/1/93	B08VX0	1.35	1.84E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.84E+05	
AP105	Chromium	3/1/93	B08VX1	1.34	1.82E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.82E+05	
AP105	Chromium	3/1/93	B08VX1	1.34	1.82E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.82E+05	
AW-101	Chromium	6/28/90	10A/7b	1.56	3.48E-03	M	L	251 In from the bottom	RAW	Cr+6	1.81E+05	
sy101	Chromium	12/1/91	B0B282	1.24	8.99E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.81E+05	
AN107	Cr	5/13/94	R3155	1.384	0.013	Wt%	P		RAW	Cr +6	1.80E+05	
sy101	Chromium	12/1/91	B0B282	1.24	8.93E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.79E+05	
AP105	Chromium	3/1/93	B08VX7	1.3	1.79E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.79E+05	
AP105	Chromium	3/1/93	B08VX1	1.34	1.78E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.78E+05	
AP105	Chromium	3/1/93	B08VX1	1.34	1.78E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.78E+05	
AP105	Chromium	3/1/93	B08VX0	1.35	1.75E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.75E+05	
AP105	Chromium	3/1/93	B08VX7	1.3	1.74E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.74E+05	
AN107	Cr	5/13/94	R3154	1.392	0.012	Wt%	P		RAW	Cr +6	1.67E+05	
SY101	Cr	8/20/92			0.015	Wt%	L	Total	RAW	Cr +6	1.65E+05	
SY101	Cr	8/20/92			0.015	Wt%	L	VI	RAW	Cr +6	1.65E+05	
AP105	Chromium	3/1/93	B0B3C9	1.3	1.64E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.64E+05	
AP105	Chromium	3/1/93	B0B3C9	1.3	1.56E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.56E+05	
SY101	Hexavalent Chromium	12/1/91	B0B282	1.6	9.65E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.54E+05	
AP105	Chromium	3/1/93	B08VX3	1.3	1.54E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.54E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP105	Chromium	3/1/93	B08VX3	1.3	1.54E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.54E+05	
sy101	Chromium	12/1/91	B0B281	1.24	9.84E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.54E+05	
sy101	Chromium	12/1/91	B0B281	1.24	6.68E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.53E+05	
SY101	Hexavalent Chromium	12/1/91	B0B282	1.6	9.56E+01	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.53E+05	
AW-101	Chromium	6/28/90	10A/8a	1.56	2.92E-03	M	L	338 In from the bottom	RAW	Cr+6	1.52E+05	
AN101	Cr	3/27/85	R-3963	1.02	2.90E-03	M	P		RAW	Cr +6	1.51E+05	
AN101	Cr	3/27/85	R-3963	1.02	0.0029	moles/l	P	Supernate	Braun	Cr	1.51E+05	
sy101	Chromium	12/1/91	B0B281	1.24	6.49E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.49E+05	
sy101	Chromium	12/1/91	B0B281	1.24	9.47E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.48E+05	
AW-101	Chromium	6/28/90	22A/12a	1.57	2.83E-03	M	L	367 In from the bottom	RAW	Cr+6	1.47E+05	
AP105	Chromium	3/1/93	B08VX2	1.298	1.47E+05	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.47E+05	
AP105	Chromium	3/1/93	B08VX2	1.298	1.44E+05	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.44E+05	
SY101	Hexavalent Chromium	12/1/91	B0B282	1.62	8.74E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.42E+05	
AN101	Cr	12/19/90	R3820	1.15	1.21E+02	ppm	O		RAW	Cr +6	1.39E+05	
AW-101	Chromium	6/28/90	10A/6a	1.57	2.67E-03	M	L	150 In from the bottom	RAW	Cr+6	1.39E+05	
AW105	Cr	10/29/85	7626	1.34	2.60E-03	mol/l	U		RAW	Cr +6	1.35E+05	
AW105	Cr	10/29/85	7625	1.34	2.58E-03	mol/l	U		RAW	Cr +6	1.34E+05	
AW105	Cr	10/29/85	7625	1.34	1.00E-02	wt%	U		RAW	Cr +6	1.34E+05	
sy101	Chromium	12/1/91	B0B271	1.27	7.31E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.34E+05	
sy101	Chromium	12/1/91	B0B271	1.27	7.31E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.34E+05	
SY101	Hexavalent Chromium	12/1/91	B0B282	1.62	8.19E+01	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.33E+05	
SY101	Cr	8/20/92			0.012	Wt%	L	Total	RAW	Cr +6	1.32E+05	
sy101	Chromium	12/1/91	B0B271	1.27	7.13E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.30E+05	
sy101	Chromium	12/1/91	B0B271	1.27	7.13E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.30E+05	
AW-101	Chromium	6/28/90	22A/12b	1.58	2.50E-03	M	L	367 In from the bottom	RAW	Cr+6	1.30E+05	
AW105	Cr	10/29/85	7632	1.28	2.50E-03	mol/l	U		RAW	Cr +6	1.30E+05	
AW-101	Chromium	6/28/90	16C/1a	1.55	2.48E-03	M	L	94 In from the bottom	RAW	Cr+6	1.29E+05	
AW-101	Chromium	6/28/90	16C/3b	1.56	2.48E-03	M	L	291 In from the bottom	RAW	Cr+6	1.29E+05	
AW-101	Chromium	6/28/90	22A/9a	1.55	2.48E-03	M	L	52 In from the bottom	RAW	Cr+6	1.29E+05	
AW-101	Chromium	6/28/90	16C/1b	1.51	2.44E-03	M	L	94 In from the bottom	RAW	Cr+6	1.27E+05	
AW-101	Chromium	6/28/90	16C/2b	1.51	2.44E-03	M	L	138 In from the bottom	RAW	Cr+6	1.27E+05	
AN107	Cr	5/13/94	R2686	1.047	0.012	Wt%	P		RAW	Cr +6	1.26E+05	
sy101	Chromium	12/1/91	B0B276	1.19	6.00E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.25E+05	
sy101	Chromium	12/1/91	B0B276	1.19	5.93E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.23E+05	
sy101	Chromium	12/1/91	B0B271	1.27	6.84E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.23E+05	
sy101	Chromium	12/1/91	B0B271	1.27	6.84E+04	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.23E+05	
AW-101	Chromium	6/28/90	22A/9b	1.57	2.37E-03	M	L	52 In from the bottom	RAW	Cr+6	1.23E+05	
sy101	Chromium	12/1/91	B0B280	1.33	7.55E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.23E+05	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID	
AW-101	Chromium	6/28/90	16C/3a	1.58	2.35E-03	M	L	291 In from the bottom	RAW	Cr+6	1.22E+05		
AW-101	Chromium	6/28/90	16C/2a	1.56	2.33E-03	M	L	138 In from the bottom	RAW	Cr+6	1.21E+05		
AW-101	Chromium	6/28/90	10A/8b	1.55	2.33E-03	M	L	338 In from the bottom	RAW	Cr+6	1.21E+05		
AW-101	Chromium	6/28/90	22A/10a	1.56	2.33E-03	M	L	170 In from the bottom	RAW	Cr+6	1.21E+05		
sy101	Chromium	12/1/91	BOB271	1.27	6.54E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.18E+05		
sy101	Chromium	12/1/91	BOB271	1.27	6.54E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.18E+05		
AW-101	Chromium	6/28/90	22A/11a	1.55	2.25E-03	M	L	260 In from the bottom	RAW	Cr+6	1.17E+05		
AW-101	Chromium	6/28/90	10A/6b	1.55	2.23E-03	M	L	150 In from the bottom	RAW	Cr+6	1.16E+05		
AZ102	Cr	10/1/90			2.02E+00	umol/g	P		RAW	Cr+6	1.16E+05		
AZ102	Cr+6	9/1/93			2.02E+00	umol/g	P		RAW	Cr+6	1.16E+05		
SY101	Hexavalent Chromium	12/1/91	BOB281	1.26	9.15E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.15E+05		
AW-101	Chromium	6/28/90	22A/10b	1.56	2.21E-03	M	L	170 In from the bottom	RAW	Cr+6	1.15E+05		
sy101	Chromium	12/1/91	BOB280	1.33	7.08E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.15E+05		
SY101	Hexavalent Chromium	12/1/91	BOB281	1.26	9.11E+01	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.15E+05		
AW-101	Chromium	6/28/90	22A/11b	1.55	2.17E-03	M	L	260 In from the bottom	RAW	Cr+6	1.13E+05		
sy101	Chromium	12/1/91	BOB279	1.305	7.47E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.11E+05		
sy101	Chromium	12/1/91	BOB279	1.305	7.47E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.11E+05		
SY101	Cr	5/30/86	R-6396	1.3	2.13E-03	M	P		RAW	Cr+6	1.11E+05		
sy101	Chromium	12/1/91	BOB279	1.305	7.42E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.10E+05		
sy101	Chromium	12/1/91	BOB279	1.305	7.42E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.10E+05		
SY101	Cr	8/20/92			0.01	Wt%	L	Total	RAW	Cr+6	1.10E+05		
SY101	Cr	8/20/92			0.01	Wt%	L	Total	RAW	Cr+6	1.10E+05		
SY101	Cr	8/20/92			0.01	Wt%	L	Total	RAW	Cr+6	1.10E+05		
SY101	Cr	8/20/92			0.01	Wt%	L	Total	RAW	Cr+6	1.10E+05		
AZ102	Cr	11/5/85	RAT-AZ102-2A	1.09	0.00211	moles/l	P	Supernate	Braun	Cr	1.10E+05		
SY101	Cr	5/18/90			2.10E-03	M	P		RAW	Cr+6	1.09E+05		
sy101	Chromium	12/1/91	BOB280	1.33	7.74E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	1.08E+05		
sy101	Chromium	12/1/91	BOB280	1.33	7.53E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.05E+05		
sy101	Chromium	12/1/91	BOB279	1.305	6.85E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.05E+05		
sy101	Chromium	12/1/91	BOB279	1.305	6.85E+04	ug/g	L	PRIMARY RESULT	TCD	Cr+6	1.05E+05		
SY101	Cr	5/18/90			1.90E-03	M	P		RAW	Cr+6	9.88E+04		
sy101	Chromium	12/1/91	BOB279	1.305	6.42E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	9.80E+04		
sy101	Chromium	12/1/91	BOB279	1.305	6.42E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr+6	9.80E+04		
SY103	Cr	6/1/85			9.00E-02	g/L	U	Bottom	Wastren	Cr+6	9.00E+04		
SY103	Cr	10/29/85	5257	1.5	1.73E-03	M	F		RAW	Cr+6	9.00E+04		
SY103	Cr	5/16/90			1.70E-03	M	P		RAW	Cr+6	8.84E+04		
SY101	Cr	5/1/91			8.76E-02	g/L	L	Liquid	Wastren	Cr+6	8.76E+04		
AZ101	Cr+6	5/1/89		1.24	1.32E+00	umol/g	P	Core 2	RAW	Cr+6	8.51E+04		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY101	Cr	5/30/86	R-6395	1.17	1.62E-03	M	P		RAW	Cr + 6	8.42E+04	
SY101	Cr	5/30/86	R-6395	1.17	0.00162	moles/l	P	Supernate	Braun	Cr	8.42E+04	
SY101	Cr	5/30/86	R-6395	1.29	0.00162	moles/l	P	Supernate	Braun	Cr	8.42E+04	
AZ101	CrO4	9/1/90	RAT-AZ101-5A	1.22	1.32	umol/gm	P	Supernate	Braun	Cr + 6	8.37E+04	
AY102	Cr	7/21/88	PNL12966	1.106	1.60E-03	M	L		RAW	Cr + 6	8.32E+04	
SY101	Cr	5/18/90			1.60E-03	M	P		RAW	Cr + 6	8.32E+04	
sy101	Chromium	12/1/91	BOB276	1.19	4.22E+04	ug/g	L	DUPLICATE RESULT	TCD	Cr + 6	8.14E+04	
SY102	Cr	5/1/84			1.49E-03	M	P		RAW	Cr + 6	7.75E+04	
sy101	Chromium	12/1/91	BOB276	1.19	4.00E+04	ug/g	L	PRIMARY RESULT	TCD	Cr + 6	7.71E+04	
SY101	Cr	8/20/92			0.007	Wt%	L	VI	RAW	Cr + 6	7.70E+04	
AW101	Cr	7/2/86		1.5	5.13E-03	Wt%	F	FILTRATE	RAW	Cr + 6	7.70E+04	
SY101	Cr	5/1/91			7.30E-02	g/L	L	Liquid	Wastren	Cr + 6	7.30E+04	
SY101	Hexavalent Chromium	12/1/91	BOB279	1.14	6.29E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr + 6	7.17E+04	
SY101	Hexavalent Chromium	12/1/91	BOB279	1.14	6.05E+01	ug/g	L	PRIMARY RESULT	TCD	Cr + 6	6.90E+04	
SY101	Hexavalent Chromium	12/1/91	BOB279	1.17	5.84E+01	ug/g	L	PRIMARY RESULT	TCD	Cr + 6	6.83E+04	
AN106	Cr	9/16/87	R-2087	1.087	1.31E-03	M	P		RAW	Cr + 6	6.81E+04	
AN106	Cr	2/19/87	R-2087	1.087	0.00131	moles/l	P	Supernate	Braun	Cr	6.81E+04	
SY101	Hexavalent Chromium	12/1/91	BOB279	1.17	5.79E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr + 6	6.77E+04	
AY102	Cr	7/21/88	PNL12966	1.106	1.30E-03	M	L		RAW	Cr + 6	6.76E+04	
AW101	Cr	6/26/86		1.49	4.33E-03	Wt%	F	FILTRATE	RAW	Cr + 6	6.45E+04	
AW105	Cr	6/24/88	T-7966	1.0081	1.12E-03	mol/l	P		RAW	Cr + 6	5.82E+04	
AW105	Cr	4/5/88	T-7966	1.008	0.00112	moles/l	P	Supernate	Braun	Cr	5.82E+04	
sy101	Chromium	12/1/91	BOBB23	1.144	5.00E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr + 6	5.72E+04	
sy101	Chromium	12/1/91	BOBB23	1.144	4.80E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	5.49E+04	
SY102	Cr	3/12/93	R3353	1.064	5.41E+01	ug/mL	O	Bottom	RAW	Cr + 6	5.41E+04	
SY102	Cr6 +	6/30/89		1.29	7.76E-04	mmol/g	P		RAW	Cr + 6	5.21E+04	
SY102	Cr	12/31/84	R-3326		9.79E-04	M	P		RAW	Cr + 6	5.09E+04	
sy101	Chromium	12/1/91	BOB9X3	1.267	4.00E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	5.07E+04	
sy101	Chromium	12/1/91	BOBB23	1.144	4.40E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	5.03E+04	
sy101	Chromium	12/1/91	BOBB23	1.1	5.00E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr + 6	5.00E+04	
sy101	Chromium	12/1/91	BOBB41	1.072	4.60E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr + 6	4.93E+04	
sy101	Chromium	12/1/91	BOBB41	1.072	4.60E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	4.93E+04	
SY102	Cr	7/1/88			9.40E-04	M	P		RAW	Cr + 6	4.89E+04	
sy101	Chromium	12/1/91	BOBB23	1.1	4.80E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	4.80E+04	
sy101	Chromium	12/1/91	BOBB41	1.1	4.60E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr + 6	4.60E+04	
sy101	Chromium	12/1/91	BOBB41	1.1	4.60E+01	MG/L	L	PRIMARY RESULT	TCD	Cr + 6	4.60E+04	
SY102	Cr + 6	1/25/90	102SY3T4L		7.76E-04	mmol/g	P		RAW	Cr + 6	4.44E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
sy101	Chromium	12/1/91	BOB9Z7	1.16	3.80E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	4.41E+04	
sy101	Chromium	12/1/91	BOBB23	1.1	4.40E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	4.40E+04	
SY102	Cr	8/2/88	R-3038	1.06	8.46E-04	M	P		RAW	Cr+6	4.40E+04	
SY102	Cr	10/5/84	R-3038	1.06	0.000846	moles/l	P	Supernate	Braun	Cr	4.40E+04	
SY102	Cr	5/2/89		1.57	8.20E-04	M	L		RAW	Cr+6	4.26E+04	
sy101	Chromium	12/1/91	BOB9Z7	1.16	3.50E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr+6	4.06E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	3.67E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	4.01E+04	
sy101	Chromium	12/1/91	BOB9X3	1.1	4.00E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	4.00E+04	
sy101	Chromium	12/1/91	BOB9Z7	1.16	3.40E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	3.94E+04	
sy101	Chromium	12/1/91	BOB9X3	1.267	3.10E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.93E+04	
sy101	Chromium	12/1/91	BOB9X3	1.267	3.10E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	3.93E+04	
sy101	Chromium	12/1/91	BOB9Z7	1.1	3.80E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	3.80E+04	
AW101	Cr	6/23/86		1.37	2.75E-03	Wt%	F	filtrate	RAW	Cr+6	3.77E+04	
AY101	Cr	2/28/85	R-3641	1.11E+00	7.23E-04	M	P		RAW	Cr+6	3.76E+04	
AY101	Cr	2/28/85	R-3641	1.11	0.000723	moles/l	P	Supernate	Braun	Cr	3.76E+04	
SY102	Cr	7/1/88		1.128	7.20E-04	M	P		RAW	Cr+6	3.74E+04	
SY101	Hexavalent Chromium	12/1/91	BOB280	1.22	2.93E+01	ug/g	L	PRIMARY RESULT	TCD	Cr+6	3.57E+04	
sy101	Chromium	12/1/91	BOB9Z7	1.1	3.50E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.50E+04	
SY102	Cr	8/2/88	R-3037	1.03	6.73E-04	M	P		RAW	Cr+6	3.50E+04	
SY102	Cr	10/5/84	R-3037	1.03	0.000673	moles/l	P	Supernate	Braun	Cr	3.50E+04	
AY101	Cr	2/28/85	R-3642	1.12E+00	6.54E-04	M	P		RAW	Cr+6	3.40E+04	
sy101	Chromium	12/1/91	BOB9Z7	1.1	3.40E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	3.40E+04	
AW105	Cr	5/1/86	RAT-AW105-2A	1.079	30	ugm/gm	P	Supernate	Braun	Cr	3.24E+04	
sy101	Chromium	12/1/91	BOB9X3	1.1	3.10E+01	MG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.10E+04	
sy101	Chromium	12/1/91	BOB9X3	1.1	3.10E+01	MG/L	L	PRIMARY RESULT	TCD	Cr+6	3.10E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.60E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.84E+04	
SY102	Cr	10/1/88			2.82E-02	g/L	P	Supernatant	Wastren	Cr+6	2.82E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.57E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.81E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.54E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.78E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.42E+04	PPB	L	DUPLICATE RESULT	TCD	Cr+6	2.65E+04	
AY101	Cr	6/23/87		1.09	5.00E-04	M	P		RAW	Cr+6	2.60E+04	
AY101	Cr	3/1/87	RAT-AY101-1	1.09	0.0005	moles/l	P	Supernate	Braun	Cr	2.60E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.29E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.51E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.28E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.49E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.26E+04	PPB	L	DUPLICATE RESULT	TCD	Cr+6	2.47E+04	
SY102	Cr	10/1/88	102-SY-1-2		0.000417	mmol/gm	P	Supernate	Braun	Cr	2.39E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	2.12E+04	PPB	L	PRIMARY RESULT	TCD	Cr+6	2.32E+04	
AW102	Cr	4/20/88	T-8435	1.04	0.000439	moles/l	P	Supernate	Braun	Cr	2.28E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
aw106	Chromium	12/1/93	B08VS6	1.094	2.08E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	2.28E+04	
SY102	Cr6 +	6/30/89		1.52	2.37E-04	mmol/g	P		RAW	Cr +6	1.87E+04	
SY102	Cr	6/1/84		1.17	3.39E-04	M	P		RAW	Cr +6	1.76E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	1.53E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.67E+04	
aw106	Chromium	12/1/93	B08VS6	1.094	1.48E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.62E+04	
SY101	Hexavalent Chromium	12/1/91	B0B280	1.22	1.24E+01	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	1.51E+04	
SY102	Cr	6/30/89		1.52	1.80E-04	mmol/g	P		RAW	Cr +6	1.42E+04	
SY102	Cr + 6	1/25/90	102SY1-2		2.37E-04	mmol/g	P		RAW	Cr +6	1.36E+04	
AY102	Cr	2/12/90		1	2.50E-04	M	P	2nd analysis	RAW	Cr +6	1.30E+04	
AY102	Cr	7/21/88	PNL12966	1.106	2.50E-04	M	P		RAW	Cr +6	1.30E+04	
SY102	Cr	6/1/88			2.50E-04	M	P		RAW	Cr +6	1.30E+04	
AY102	Cr	6/30/88			1.30E-02	g/L	P	Supernatant	Wastren	Cr +6	1.30E+04	
AY102	Cr	2/1/90	RAT-AY102-1A	1	0.00025	moles/l	P	Supernate	Braun	Cr	1.30E+04	
SY102	Cr	6/1/88	RAT-SY102-1		0.00025	moles/l	P	Supernate	Braun	Cr	1.30E+04	
AP106	Chromium	3/1/93	B0B2B9	0.998	1.15E+04	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.15E+04	
AP106	Chromium	3/1/93	B0B2C0	1	1.15E+04	UG/L	L	DUPLICATE RESULT	TCD	Cr +6	1.15E+04	
AP106	Chromium	3/1/93	B0B2B9	0.998	1.15E+04	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.15E+04	
AP106	Chromium	3/1/93	B0B2C0	1	1.15E+04	UG/L	L	PRIMARY RESULT	TCD	Cr +6	1.15E+04	
aw102	Chromium	12/1/93	B0BC12	1.03	1.10E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.13E+04	
SY101	Hexavalent Chromium	12/1/91	B0B280	1.05	1.07E+01	ug/g	L	PRIMARY RESULT	TCD	Cr +6	1.12E+04	
aw102	Chromium	12/1/93	B0BC12	1.03	1.09E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.12E+04	
AY102	Cr	2/1/90		1	1.10E+01	mg/L	L		RAW	Cr +6	1.10E+04	
AY102	Cr	2/12/90		1	2.10E-04	M	P	1st analysis	RAW	Cr +6	1.09E+04	
AY102	Cr	9/30/80		1	2.10E-04	M	L		RAW	Cr +6	1.09E+04	
AY102	Cr	7/21/88	PNL12966	1.106	2.10E-04	M	P		RAW	Cr +6	1.09E+04	
aw102	Chromium	12/1/93	B0BC12	1.03	1.06E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.09E+04	
aw102	Chromium	12/1/93	B0BC12	1.03	1.05E+04	PPB	L	DUPLICATE RESULT	TCD	Cr +6	1.08E+04	
aw102	Chromium	12/1/93	B0BC12	1.03	1.04E+04	PPB	L	PRIMARY RESULT	TCD	Cr +6	1.07E+04	
SY102	Cr	1/25/90	102SY1-2		1.80E-04	mmol/g	P		RAW	Cr +6	1.03E+04	
SY102	Cr	1/4/89	R-4331	1.02	1.93E-04	M	L		RAW	Cr +6	1.00E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
SY102	Cr	11/1/88		1.02	1.90E-04	M	L	1 + 2 Liquid	RAW	Cr +6	9.88E+03	
SY102	Cr	8/16/89	R-5029	1.012	1.90E-04	M	P		RAW	Cr +6	9.88E+03	
SY102	Cr	8/16/89	R-5028	1.013	1.80E-04	M	P		RAW	Cr +6	9.36E+03	
SY102	Cr	8/16/89	R-5027	1.014	1.80E-04	M	P		RAW	Cr +6	9.36E+03	
SY101	Hexavalent Chromium	12/1/91	B0B280	1.05	8.74E+00	ug/g	L	DUPLICATE RESULT	TCD	Cr +6	9.18E+03	
sy101	Chromium	12/1/91	B0BBB5	1.1	9.00E+00	MG/L	L	PRIMARY RESULT	TCD	Cr +6	9.00E+03	
AW-106	Cr				2.78E+02	g-moles	L		TRAC	Cr +6	7.09E+03	
AY102	Cr	9/30/80			1.30E-04	M	L		RAW	Cr +6	6.76E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP103	Chromium	11/1/91	BOBC21	1	6.60E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	6.60E+03	
AP103	Chromium	11/1/91	BOBC21	1	6.40E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	6.40E+03	
AP106	Chromium	3/1/93	BOB2C3	0.993	5.88E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	5.88E+03	
AP106	Chromium	3/1/93	BOB2C2	0.997	5.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	5.65E+03	
AP106	Chromium	3/1/93	BOB2C2	0.997	5.65E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	5.65E+03	
AP106	Chromium	3/1/93	BOB2C3	0.993	5.31E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	5.31E+03	
AP103	Chromium	11/1/91	BOBC21	1	5.05E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	5.05E+03	
AP103	Chromium	11/1/91	BOBC21	1	4.87E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.87E+03	
AP106	Chromium	3/1/93	BOB2C5	0.994	4.83E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	4.83E+03	
AP106	Chromium	3/1/93	BOB2G2	0.997	4.78E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.78E+03	
AY-101	Cr				2.82E+02	g-moles	L		TRAC	Cr+6	4.75E+03	
AP103	Chromium	11/1/91	BOBC21	1	4.67E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	4.67E+03	
SY102	Cr	3/12/93	R3354	1.002	4.62E+00	ug/mL	L	no solids	RAW	Cr+6	4.62E+03	
AP106	Chromium	3/1/93	BOB2C5	0.994	4.53E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.53E+03	
AP103	Chromium	11/1/91	BOBC21	1	4.48E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.48E+03	
AP106	Chromium	3/1/93	BOB2B8	0.997	4.35E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.35E+03	
AP106	Chromium	3/1/93	BOB2B8	0.997	4.24E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	4.24E+03	
AP106	Chromium	3/1/93	BOB2C1	0.996	4.18E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.18E+03	
AP103	Chromium	11/1/91	BOBC21	1	4.15E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.15E+03	
AP106	Chromium	3/1/93	BOB2C2	0.997	4.02E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.02E+03	
AP106	Chromium	3/1/93	BOB2C2	0.997	4.02E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	4.02E+03	
AZ-101	Cr				2.29E+02	g-moles	L		TRAC	Cr+6	3.95E+03	
AP106	Chromium	3/1/93	BOB2C1	0.996	3.77E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.77E+03	
AP106	Chromium	3/1/93	BOB2G2	0.997	3.73E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.73E+03	
SY102	Cr	3/12/93	R3355	1	3.67E+00	ug/mL	L	no solids	RAW	Cr+6	3.67E+03	
AP103	Chromium	11/1/91	BOBC21	1	3.56E+03	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.56E+03	
AP103	Chromium	11/1/91	BOBC21	1	3.53E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.53E+03	
AP103	Chromium	11/1/91	BOBC21	1	3.51E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.51E+03	
AP103	Chromium	11/1/91	BOBC21	1	3.38E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.38E+03	
AP104	Cr	7/10/87	T-513		4.74E-05	M	P		RAW	Cr+6	2.46E+03	
AP104	Cr	7/10/87	T-513		4.74E-05	moles/l	P	Supernate	Braun	Cr	2.46E+03	
AW103	Cr	1/23/90			2.34E-03	g/L	P	Supernatant	Wastren	Cr+6	2.34E+03	
AP103	Chromium	11/1/91	BOBC21	1	2.05E+03	UG/L	L	PRIMARY RESULT	TCD	Cr+6	2.05E+03	
AW103	Cr	1/23/90	RAT-AW103-1B		1.8E-06	gm/gm	P	Supernate	Braun	Cr	1.98E+03	
AP104	Cr	3/1/88	RAT-AP104-1A	1.03	1.7	ppm	P	Supernate	Braun	Cr	1.75E+03	
AP104	Cr	3/1/88	RAT-AP104-1B	1.01	1.7	ppm	P	Supernate	Braun	Cr	1.72E+03	
AP102	Cr	12/31/88		1.01	1.70E+00	ppm	U		RAW	Cr+6	1.72E+03	
AP102	Cr	4/29/88	R-8469		1.70E+00	UG/ML	P	No Solids	RAW	Cr+6	1.70E+03	
AP102	Cr	4/29/88			1.70E-03	g/L	P	Supernatant	Wastren	Cr+6	1.70E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP104	Cr	3/1/88			1.65E-03	g/L	P	Supernatant	Wastren	Cr+6	1.65E+03	
AP102	Cr	2/11/93		0.956764	1.610394	ppm	U		RAW	Cr+6	1.54E+03	
SY-103	Cr				3.93E+01	g-moles	L		TRAC	Cr+6	9.93E+02	
SY-102	Cr				2.17E+01	g-moles	L		TRAC	Cr+6	5.29E+02	
AW105	Cr	6/10/85	R-4036	0.974	1.00E-05	M	L	Clear	RAW	Cr+6	5.20E+02	
AW105	Cr	1/1/85	R-4036	0.974	0.00001	moles/l	L	Liquor	Braun	Cr	5.20E+02	
AY-102	Cr				4.09E+00	g-moles	L		TRAC	Cr+6	2.47E+02	
SY-101	Cr				1.88E+01	g-moles	L		TRAC	Cr+6	2.28E+02	
SY103	Cr	12/30/88		1.54	2.94E-06	M	L		RAW	Cr+6	1.53E+02	
AP101	Chromium	7/1/93	BOB2G9	0.988	7.92E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	7.92E+01	
AP107	Chromium	8/1/93	BO8W49	0.99	7.76E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	7.76E+01	
AP107	Chromium	8/1/93	BO8W49	0.99	5.50E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	5.50E+01	
AP107	Chromium	8/1/93	BO8W49	0.99	5.50E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	5.50E+01	
AP101	Chromium	7/1/93	BOB2G9	0.988	4.89E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	4.89E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.99E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.99E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.99E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.99E+01	
AP101	Chromium	7/1/93	BOB2H0	0.986	3.78E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.78E+01	
AP101	Chromium	7/1/93	BOB2G9	0.988	3.13E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.13E+01	
AP107	Chromium	8/1/93	BO8W48	0.99	3.08E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.08E+01	
AP101	Chromium	7/1/93	BOB2G7	0.987	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2G8	0.983	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2G9	0.988	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H0	0.986	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W48	0.99	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W50	0.991	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W50	0.991	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W51	0.99	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W52	0.987	3.00E+01	UG/L	L	DUPLICATE RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2G7	0.987	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2G8	0.983	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H0	0.986	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H0	0.986	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP101	Chromium	7/1/93	BOB2H1	0.985	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	
AP107	Chromium	8/1/93	BO8W49	0.99	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr+6	3.00E+01	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Liquids [Sketch ES-VAL-CC67]
 ASA Value: 3.6E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
AP107	Chromium	8/1/93	B08W50	0.991	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr +6	3.00E+01	
AP107	Chromium	8/1/93	B08W50	0.991	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr +6	3.00E+01	
AP107	Chromium	8/1/93	B08W51	0.99	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr +6	3.00E+01	
AP107	Chromium	8/1/93	B08W52	0.987	3.00E+01	UG/L	L	PRIMARY RESULT	TCD	Cr +6	3.00E+01	
AW-103	Cr				1.14E-07	g-moles	L		TRAC	Cr +6	1.63E-06	
AZ-102	Cr				1.82E-12	g-moles	L		TRAC	Cr +6	2.71E-11	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Chromium +6 Double-Shell Tank Solids [Sketch ES-VAL-CC68]
 ASA Value: N/A

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After additional review the WHC panel concluded that Cr+6 probably does not exist in the solid phase. No final ASA value was specified.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Cr2O3	9/1/89			0.78	wt %	S	core #1 Washed Solids	RAW	Cr + 6	8.54E + 06	
SY102	Cr + 6	1/25/90	102SY3T4S		0.03	mmol/g	S		RAW	Cr + 6	2.48E + 06	
SY102	Cr + 6	1/25/90	102SY4B	1.8	0.025	mmol/g	S		RAW	Cr + 6	2.30E + 06	
SY102	Cr6 +	6/30/89		1.8	0.025	mmol/g	S		RAW	Cr + 6	2.30E + 06	
SY102	Cr6 +	6/30/89		1.42	0.03	mmol/g	S		RAW	Cr + 6	2.20E + 06	
SY102	Cr6 +	12/27/89			0.04	M	S		RAW	Cr + 6	2.08E + 06	
AZ101	Cr + 6	5/1/89			1.52	umol/g	I	Core 2	RAW	Cr + 6	1.26E + 05	
AW103	CrO4	1/23/90			0.042	g/L	G	Sludge	Wastren	Cr + 6	4.20E + 04	
SY101	Hexavalent Chromium	12/1/91	BOB280	1	12.6	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	1.26E + 04	
SY101	Hexavalent Chromium	12/1/91	BOB279	1	6.85	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.85E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB282	1	6.84	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.84E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB279	1	6.83	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.83E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB280	1	6.81	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.81E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB281	1	6.79	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.79E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB282	1	6.78	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.78E + 03	
SY101	Hexavalent Chromium	12/1/91	BOB281	1	6.7	ug/g	S	PRIMARY RESULT	TCD	Cr + 6	6.70E + 03	
Minimum Plot Limit: 1.00E + 03 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Dyprosium Double-Shell Tank Liquids [Sketch ES-VAL-CC69]
 ASA Value: N/A

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Dyprosium has never been quantifiably detected in any tank at Hanford. It occasionally shows on an ICP analysis because heavy element corrections have not been made.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
AZ102	Dy	8/1/89			9.59E-04	g/L	P	Supernatant	Wastren	Dy	9.59E+02	
AZ102	Dy	10/1/90			5.00E-03	umol/g	P		RAW	Dy	8.95E+02	
AZ102	Dy	9/1/93			5.00E-03	umol/g	P		RAW	Dy	8.95E+02	
Preliminary ASA Value: 8.95E+02 ug/L												
AY102	Dy	9/30/88		1	1.00E-07	M	P		RAW	Dy	1.63E+01	
Minimum Plot Limit: 1.00E+01 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Dysprosium Double-Shell Tank Solids [Sketch ES-VAL-CC70]
 ASA Value: N/A

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Dysprosium has never been quantifiably detected in any tank at Hanford. It occasionally shows on an ICP analysis because heavy element corrections have not been made.

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ102	Dy	9/1/93			5.5	umol/g	S		RAW	Dy	1.43E+06	
AZ101	Dy2O3	9/1/89			0.03	wt %	S	core #1 Washed Solids	RAW	Dy	4.18E+05	
Preliminary ASA Value: 8.4E+04 ug/L												
SY102	Dy	10/1/88	102-SY-4B	1.8	0.0002	mmol/gm	G	Sludge	Braun	Dy	5.85E+04	
SY102	Dy	10/1/88			0.0585	g/L	G	Sludge	Wastren	Dy	5.85E+04	
AZ102	Dy	9/1/93			0.07	umol/g	S	Washed Solids	RAW	Dy	1.82E+04	
AZ102	Dy	10/1/90		1.11	0.07	umol/g	S		RAW	Dy	1.27E+04	
AZ102	Dy	10/1/90		1.49	0.001	umol/g	I		RAW	Dy	2.43E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
SY102	Dy	6/30/89		1.42	0.0003	mmol/g	S		RAW	Dy	7.41E+01	
SY102	Dy	6/30/89		1.8	0.0002	mmol/g	S		RAW	Dy	5.87E+01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Mercury Double-Shell Tank Liquids [Sketch ES-VAL-CC71]

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ASA Value: 2.44E+02 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY103	Hg	6/1/85			5.95E-03	g/L	U	Top	Wastren	Hg	5.95E+03	20
ASA Value: 2.44E+02 ug/L												
AW-101	Mercury	6/28/90	16C/1a	1.55	2.44E-01	mg/l	L	94 In from the bottom	RAW	Hg	2.44E+02	*
Preliminary ASA Value: 1.50E+02 ug/L												
sy101	Mercury	12/1/91	BOBB41	1.1	1.28E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.41E+02	
sy101	Mercury	12/1/91	BOBB41	1.072	1.28E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.37E+02	
sy101	Mercury	12/1/91	BOB9X3	1.267	1.05E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.33E+02	
sy101	Mercury	12/1/91	BOB9Z7	1.16	1.03E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.19E+02	
sy101	Mercury	12/1/91	BOB9X3	1.1	1.05E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.16E+02	
sy101	Mercury	12/1/91	BOB9Z7	1.1	1.03E-01	PPM	L	PRIMARY RESULT	TCD	Hg	1.13E+02	
Minimum Plot Limit: 1.00E+02 ug/L												
aw106	Mercury	12/1/93	B08VS6	1.094	4.77E-02	PPM	L	DUPLICATE RESULT	TCD	Hg	5.22E+01	
aw106	Mercury	12/1/93	B08VS6	1.094	4.15E-02	PPM	L	PRIMARY RESULT	TCD	Hg	4.54E+01	
aw106	Mercury	12/1/93	B08VS6	1.094	2.00E-02	PPM	L	DUPLICATE RESULT	TCD	Hg	2.19E+01	
aw106	Mercury	12/1/93	B08VS6	1.094	2.00E-02	PPM	L	PRIMARY RESULT	TCD	Hg	2.19E+01	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	DUPLICATE RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw106	Mercury	12/1/93	B08VS6	1.094	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.47E+00	
aw102	Mercury	12/1/93	BOBC12	1.03	5.00E-03	PPM	L	DUPLICATE RESULT	TCD	Hg	5.15E+00	
aw102	Mercury	12/1/93	BOBC12	1.03	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.15E+00	
aw102	Mercury	12/1/93	BOBC12	1.03	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.15E+00	
aw102	Mercury	12/1/93	BOBC12	1.03	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.15E+00	
aw102	Mercury	12/1/93	BOBC12	1.03	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.15E+00	
AP103	Mercury	11/1/91	BOBC21	1	5.00E-03	PPM	L	PRIMARY RESULT	TCD	Hg	5.00E+00	
AP103	Mercury	11/1/91	BOBC21	1	1.70E-03	PPM	L	DUPLICATE RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	BOBC21	1	1.70E-03	PPM	L	DUPLICATE RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	BOBC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	BOBC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Double-Shell Tank Liquids [Sketch ES-VAL-CC71]
 ASA Value: 2.44E+02 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP103	Mercury	11/1/91	B0BC21	1	1.70E-03	PPM	L	PRIMARY RESULT	TCD	Hg	1.70E+00	
AP102	Hg	12/31/88		1.01	0.0004	ppm	U		RAW	Hg	4.04E-01	
AP102	Hg	2/11/93		0.956764	0.000379	ppm	U		RAW	Hg	3.63E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Mercury Double-Shell Tank Solids [Sketch ES-VAL-CC72]
 ASA Value: 1.22E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AY102	Hg	4/24/89			0.38	gmol/g	S		RAW	Hg	1.22E+11	13
ASA Value: 1.22E+05 ug/L												
AY102	Hg	7/21/88	PNL12966		0.0004	mmol/g	I		RAW	Hg	1.22E+05	*
AY102	Hg	4/20/89			0.0004	mM/g	S		RAW	Hg	1.22E+05	*
Preliminary ASA Value: 1.10E+05 ug/L												
AY102	Hg	6/30/88			0.107	g/L	I	Composite	Wastren	Hg	1.07E+05	
AY102	Hg	2/12/90		1.4	0.0004	mmol/g	S	1st analysis	RAW	Hg	1.07E+05	
AY102	Hg	2/1/90		1.4	76	mg/kg	S		RAW	Hg	1.06E+05	
AY102	Hg	7/21/88	PNL12966	1.106	0.0002	M	S		RAW	Hg	4.01E+04	
AN103	Hg	5/16/90			0.0002	M	G		RAW	Hg	3.21E+04	
AN103	Hg	9/25/87	TKO92587		0.1	umole/g	Y	slurry	RAW	Hg	3.21E+04	
AN103	Hg	2/1/90			0.016	g/L	R	Slurry	Wastren	Hg	1.60E+04	
Minimum Plot Limit: 1.00E+03 ug/L												
SY101	Hg	8/20/92			0.23	ppm	S		RAW	Hg	3.68E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.244	ug/g	S	PRIMARY RESULT	TCD	Hg	3.01E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.244	ug/g	S	PRIMARY RESULT	TCD	Hg	3.01E+02	
SY101	Hg	8/20/92			0.18	ppm	S		RAW	Hg	2.88E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.23	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.84E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.23	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.84E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.216	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.67E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.216	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.67E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.215	ug/g	S	PRIMARY RESULT	TCD	Hg	2.66E+02	
sy101	Mercury	12/1/91	B0B282	1.235	0.215	ug/g	S	PRIMARY RESULT	TCD	Hg	2.66E+02	
sy101	Mercury	12/1/91	B0B281	1.244	0.192	ug/g	S	PRIMARY RESULT	TCD	Hg	2.39E+02	
sy101	Mercury	12/1/91	B0B281	1.244	0.182	ug/g	S	PRIMARY RESULT	TCD	Hg	2.26E+02	
sy101	Mercury	12/1/91	B0B281	1.244	0.173	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.15E+02	
sy101	Mercury	12/1/91	B0BB23	1.6	0.126	PPM	S	PRIMARY RESULT	TCD	Hg	2.02E+02	
sy101	Mercury	12/1/91	B0B281	1.244	0.162	ug/g	S	DUPLICATE RESULT	TCD	Hg	2.02E+02	
sy101	Mercury	12/1/91	B0BB23	1.6	0.115	PPM	S	DUPLICATE RESULT	TCD	Hg	1.84E+02	
sy101	Mercury	12/1/91	B0B279	1.306	0.136	ug/g	S	PRIMARY RESULT	TCD	Hg	1.78E+02	
sy101	Mercury	12/1/91	B0B279	1.306	0.124	ug/g	S	DUPLICATE RESULT	TCD	Hg	1.62E+02	
sy101	Mercury	12/1/91	B0B279	1.306	0.107	ug/g	S	DUPLICATE RESULT	TCD	Hg	1.40E+02	
sy101	Mercury	12/1/91	B0B279	1.306	0.106	ug/g	S	PRIMARY RESULT	TCD	Hg	1.38E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Double-Shell Tank Liquids [Sketch ES-VAL-CC73]
 ASA Value: 1.00E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 1.00E+06 ug/L												
AW105	La	10/29/85	7625	1.34	6.75E-03	mol/l	U		RAW	La	9.38E+05	
AW105	La	10/29/85	7626	1.34	6.75E-03	mol/l	U		RAW	La	9.38E+05	
AW105	La	10/29/85	7625	1.34	7.00E-02	wt%	U		RAW	La	9.38E+05	
AW105	La	10/29/85	7626	1.34	7.00E-02	wt%	U		RAW	La	9.38E+05	
AW105	La	10/29/85	7632	1.28	5.53E-03	mol/l	U		RAW	La	7.69E+05	
AW105	La	10/29/85	7632	1.28	6.00E-02	wt%	U		RAW	La	7.68E+05	
AW105	La	10/29/85	7627	1.36	3.92E-03	mol/l	U		RAW	La	5.45E+05	
AW105	La	10/29/85	7627	1.36	4.00E-02	wt%	U		RAW	La	5.44E+05	
AW105	La	10/29/85	7628	1.35	3.89E-03	mol/l	U		RAW	La	5.41E+05	
AW105	La	10/29/85	7631	1.22	3.51E-03	mol/l	U		RAW	La	4.88E+05	
AN102	La	2/28/85			1.58E-01	g/L	P	Supernate	Wastren	La	1.58E+05	
AW105	La	10/29/85	7633	1.41	1.02E-03	mol/l	U		RAW	La	1.42E+05	
AW105	La	10/29/85	7633	1.41	1.00E-02	wt%	U		RAW	La	1.41E+05	
AN107	La	2/28/85	R-3638	1.35	0.00101	moles/l	L	Liquor	Braun	La	1.40E+05	
AY101	La	2/28/85	R-3641	1.11	0.000569	moles/l	P	Supernate	Braun	La	7.90E+04	
AY101	La	3/14/85		1.12	4.89E+01	mg/L	L		RAW	La	4.89E+04	
AN107	La	2/28/85	R-3637	1.41	0.000277	moles/l	P	Supernate	Braun	La	3.85E+04	
AN107	La	3/6/85	RAT-AN107-1A		0.000277	moles/l	P	Supernate	Braun	La	3.85E+04	
AZ101	La	5/1/89		1.24	2.30E-02	umol/g	P	Core 2	RAW	La	3.96E+03	
AZ101	La	5/1/89			3.90E-03	g/L	P	Supernatant	Wastren	La	3.90E+03	
AZ101	La	9/1/90	RAT-AZ101-5A	1.22	0.023	umol/gm	P	Supernate	Braun	La	3.90E+03	
AZ102	La	8/1/89			1.80E-03	g/L	P	Supernatant	Wastren	La	1.80E+03	
AZ102	La	10/1/90			1.10E-02	umol/g	P		RAW	La	1.68E+03	
AZ102	La	9/1/93			1.10E-02	umol/g	P		RAW	La	1.68E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
AY102	La	2/1/90		1	5.60E-02	mg/L	L		RAW	La	5.60E+01	
SY-103	La				9.32E-15	g-moles	L		TRAC	La	6.29E-13	
SY-102	La				5.14E-15	g-moles	L		TRAC	La	3.35E-13	
SY-101	La				4.46E-15	g-moles	L		TRAC	La	1.45E-13	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Lanthanum Double-Shell Tank Solids [Sketch ES-VAL-CC74]

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ASA Value: 3E+07 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 3E+07 ug/L												
AY101	La	3/14/85			1.87E+04	mg/kg	S		RAW	La	2.99E+07	*
AZ101	La	5/1/89		1.84	4.71E+01	umol/g	S	Core 2	RAW	La	1.20E+07	
AZ101	La	5/1/89			1.06E+01	g/L	G	Sludge	Wastren	La	1.06E+07	
AZ101	La	9/1/90	RAT-AZ101-5B	1.62	47.1	umol/gm	I	Composite	Braun	La	1.06E+07	
AZ101	La2O3	9/1/89			6.00E-01	wt %	S	core #1 Washed Solids	RAW	La	8.19E+06	
AZ102	La	9/1/93			3.36E+01	umol/g	S	L1	RAW	La	7.46E+06	
AZ102	La	10/1/90			3.24E+01	umol/g	S		RAW	La	7.19E+06	
AZ102	La	9/1/93			3.24E+01	umol/g	S		RAW	La	7.19E+06	
AZ102	La	8/1/89			6.71E+00	g/L	G	Sludge	Wastren	La	6.71E+06	
AY102	La	2/12/90		1.4	3.00E-02	mmol/g	S	1st analysis	RAW	La	5.84E+06	
AY102	La	2/12/90	RAT-AY102-1B	1.4	0.03	mmol/gm	I	Composite	Braun	La	5.83E+06	
AY102	La	6/30/88			5.83E+00	g/L	I	Composite	Wastren	La	5.83E+06	
AY102	La	2/1/90		1.4	4.03E+03	mg/kg	S		RAW	La	5.64E+06	
AZ102	La	9/1/93			2.39E+01	umol/g	S	L2	RAW	La	5.31E+06	
AY102	La	2/12/90		1.4	2.70E-02	mmol/g	S	2nd analysis	RAW	La	5.25E+06	
AZ101	La	9/1/89		1.7	1.40E-02	mmol/g	S		RAW	La	3.31E+06	
AZ101	La	9/1/89	RAT-AZ101-4B	1.7	0.014	mmol/gm	S	Supernate/Solids	Braun	La	3.31E+06	
AZ101	La	5/1/89		1.14	1.96E+01	umol/g	S	Core 2	RAW	La	3.11E+06	
AZ102	La	9/1/93			1.37E+01	umol/g	S	L4	RAW	La	3.04E+06	
AZ102	La	11/5/85	RAT-AZ102-2B	1.4	0.0142	moles/l	S	Solids	Braun	La	1.97E+06	
AZ102	La	9/1/93			8.02E+00	umol/g	S	Washed Solids	RAW	La	1.78E+06	
AZ102	La	9/1/93			6.80E+00	umol/g	S	L3	RAW	La	1.51E+06	
AZ102	La	10/1/90		1.11	8.02E+00	umol/g	S		RAW	La	1.24E+06	
AW105	La	2/24/87	7940	1.37	5.76E-03	mol/l	G	Sludge	RAW	La	8.01E+05	
AW105	La	2/24/87	T-7940	1.43	0.00576	moles/l	I	Composite	Braun	La	8.00E+05	
AW105	La	2/24/87	7939	1.245	4.50E-03	mol/l	G	Sludge	RAW	La	6.26E+05	
AW105	La	2/24/87	T-7939	1.18	0.0045	moles/l	I	Composite	Braun	La	6.25E+05	
AW105	La	2/24/87	7937	1.235	4.38E-03	mol/l	G	Sludge	RAW	La	6.09E+05	
AW105	La	2/24/87	T-7937	1.17	0.00438	moles/l	I	Composite	Braun	La	6.08E+05	
AZ101	La	2/11/91			3.43E-02	wt %	S	Core 3	RAW	La	5.49E+05	
AW105	La	2/24/87	RAT-AW105-1	1.3	0.00301	moles/l	G	Sludge/Composite	Braun	La	4.18E+05	
AW105	La	2/24/87			4.18E-01	g/L	G	Sludge	Wastren	La	4.18E+05	
AW105	La	5/1/86	RAT-AW105-2B	1.2	340	ugm/gm	G	Sludge	Braun	La	4.08E+05	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Lanthanum Double-Shell Tank Solids [Sketch ES-VAL-CC74]
 ASA Value: 3E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
AZ101	La	9/1/89		1.04	2.80E-03	mmol/g	S		RAW	La	4.05E+05	
AZ101	La	2/11/91			1.89E-02	wt %	S	Core 3	RAW	La	3.02E+05	
AW103	La	1/23/90	RAT-AW103-1C		0.00015	gm/gm	S	Solids	Braun	La	2.40E+05	
AW103	La	12/11/88	R-4346B	1.49	0.001	mmol/gm	S	Solids	Braun	La	2.07E+05	
AN102	La	3/14/85			1.49E-01	g/L	G	Sludge	Wastren	La	1.49E+05	
SY102	La	10/1/88	102-SY-4B	1.8	0.00058	mmol/gm	G	Sludge	Braun	La	1.45E+05	
SY102	La	10/1/88			1.45E-01	g/L	G	Sludge	Wastren	La	1.45E+05	
AW105	La	2/24/87	7946	1.365	6.85E-04	mol/l	G	Sludge	RAW	La	9.52E+04	
AW105	La	2/24/87	T-7946	1.36	0.000685	moles/l	I	Composite	Braun	La	9.52E+04	
AY101	La	2/28/85	R-3642	1.12	0.000352	moles/l	S	Supernate/Solids	Braun	La	4.89E+04	
AW105	La	2/24/87	7942	1.57	1.42E-04	mol/l	G	Sludge	RAW	La	1.97E+04	
AW105	La	2/24/87	T-7942	1.41	0.000142	moles/l	I	Composite	Braun	La	1.97E+04	
AW105	La	2/24/87	7941	1.4	9.65E-05	mol/l	G	Sludge	RAW	La	1.34E+04	
AW105	La	2/24/87	T-7941	1.34	0.0000965	moles/l	I	Composite	Braun	La	1.34E+04	
Minimum Plot Limit: 1.00E+04 ug/L												
AZ102	La	10/1/90		1.49	2.00E-03	umol/g	I		RAW	La	4.14E+02	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]

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ASA Value: 3.29E+08 ug/L

Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AN102	Na	2/28/85	R-3640	1.39	4.06E+01	M	P		RAW	Na	9.34E+08	19
ASA Value: 3.29E+08 ug/L												
SY101	Na	5/30/86	R-6395	1.29	1.43E+01	M	P		RAW	Na	3.29E+08	*
SY103	Na TOT	3/23/81		1.47			F		RAW	Na	3.23E+08	
AW105	Na	8/17/88	T-805	1.01	13.82	moles/l	P	Supernate	Braun	Na	3.18E+08	
AW102	Na	3/4/85	R-4149	1.5	1.33E+01	M	F	Filtrate	RAW	Na	3.05E+08	
SY103	Na	10/29/85	5257	1.5	1.28E+01	M	F		RAW	Na	2.93E+08	
SY103	Na	June 85			2.93E+02	g/L	U	Bottom	Wastren	Na	2.93E+08	
SY101	Na	May 91			2.82E+02	g/L	L	Liquid	Wastren	Na	2.82E+08	
sy101	Sodium	12/1/91	B0B276	1.19	1.31E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.73E+08	
AW106	Na	1/18/85	T-6851		1.18E+01	M	L		RAW	Na	2.72E+08	
AW106	Na	3/4/85	R-4151	1.45	1.16E+01	M	F		RAW	Na	2.67E+08	
AW106	Na	4/10/85	R-4151	1.45	1.16E+01	M	F		RAW	Na	2.67E+08	
SY103	Na	10/29/85	R-5256	1.35	1.15E+01	M	F		RAW	Na	2.65E+08	
SY103	Na	June 85			2.65E+02	g/L	U	Middle	Wastren	Na	2.65E+08	
SY101	Na	5/30/86	R-6395	1.17	11.51	moles/l	P	Supernate	Braun	Na	2.65E+08	
SY101	Na	5/30/86	R-6395	1.29	11.51	moles/l	P	Supernate	Braun	Na	2.65E+08	
SY103	Na	12/30/88		1.54	7.47E-03	m/g	P		RAW	Na	2.65E+08	
sy101	Sodium	12/1/91	B0B280	1.33	1.63E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.64E+08	
SY103	Na	June 85			2.63E+02	g/L	U	Top	Wastren	Na	2.63E+08	
sy101	Sodium	12/1/91	B0B280	1.33	1.62E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.63E+08	
sy101	Sodium	12/1/91	B0B282	1.24	1.32E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.62E+08	
sy101	Sodium	12/1/91	B0B276	1.19	1.25E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.60E+08	
AN104	Na	1/18/85	R-3184	1.38	1.12E+01	M	P		RAW	Na	2.58E+08	
sy101	Sodium	12/1/91	B0B282	1.24	1.28E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.57E+08	
sy101	Sodium	12/1/91	B0B281	1.24	1.64E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.56E+08	
sy101	Sodium	12/1/91	B0B282	1.24	1.29E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.56E+08	
sy101	Sodium	12/1/91	B0B280	1.33	1.83E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.56E+08	
sy101	Sodium	12/1/91	B0B282	1.24	1.27E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.55E+08	
AW106	Na	1/18/85	T-6851		1.11E+01	M	L		RAW	Na	2.55E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.71E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.71E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.71E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.71E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.54E+08	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]

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ASA Value: 3.29E+08 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
sy101	Sodium	12/1/91	B0B271	1.27	1.39E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.39E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.39E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.39E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B280	1.33	1.81E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.53E+08	
sy101	Sodium	12/1/91	B0B281	1.24	1.61E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.52E+08	
SY101	Na	May 91			2.50E+02	g/L	L	Liquid	Wastren	Na	2.50E+08	
AW102	Na	3/20/82	T1549	1.435	1.08E+01	M	L	Cloudy, Green	RAW	Na	2.49E+08	
AW104	Na	11/9/84	R-3206	1.41	1.06E+01	M	L		RAW	Na	2.44E+08	
AW104	Na	11/9/84	R3206	1.410	10.625	M	U		RAW	Na	2.44E+08	
sy101	Sodium	12/1/91	B0B281	1.24	1.06E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.43E+08	
sy101	Sodium	12/1/91	B0B281	1.24	1.06E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.43E+08	
AW102	Na	2/4/86	T-5578	1.47	1.05E+01	M	U	Unknown	RAW	Na	2.42E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.34E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.42E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.34E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.42E+08	
SY103	Na	12/30/88		1.22	8.55E-03	m/g	P		RAW	Na	2.40E+08	
AN102	Na	2/28/85	R-3639	1.39	1.04E+01	M	P		RAW	Na	2.39E+08	
AN102	Na	2/28/85	R-3639	1.39	10.4	moles/l	P	Supernate	Braun	Na	2.39E+08	
AW102	Na	2/4/86	T-5579	1.49	1.03E+01	M	U	Unknown	RAW	Na	2.36E+08	
AN107	Na	2/28/85	R3637	1.41	1.01E+01	M	P		RAW	Na	2.32E+08	
AN107	Na	2/28/85	R-3637	1.41	10.1	moles/l	P	Supernate	Braun	Na	2.32E+08	
AN107	Na	3/6/85	RAT-AN107-1A		10.1	moles/l	P	Supernate	Braun	Na	2.32E+08	
AW102	Na TOT	4/1/83	4289	1.43			F	Filtrate	RAW	Na	2.30E+08	
sy101	Sodium	12/1/91	B0BB62	1.1	2.09E+05	ug/g	L	PRIMARY_RESULT	TCD	Na	2.30E+08	
SY101	Na	8/20/92			20.8	Wt%	L		RAW	Na	2.29E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.25E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.25E+08	
sy101	Sodium	12/1/91	B0B271	1.27	1.25E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.25E+08	
AN107	Na	2/28/85	R3638	1.35	9.80E+00	M	P		RAW	Na	2.25E+08	
AN107	Na	2/28/85	R-3638	1.35	9.8	moles/l	L	Liquor	Braun	Na	2.25E+08	
AY101	Na	6/5/78	7955	1.39	9.75E+00	M	P		RAW	Na	2.24E+08	
AW102	Na	3/22/82	T1562	1.422	9.68E+00	M	L	Clear, Light Green	RAW	Na	2.23E+08	
AN103	Na	1/25/85	R-3645	1.35	9.63E+00	M	P		RAW	Na	2.21E+08	
SY101	Na	8/20/92			20.0	Wt%	L		RAW	Na	2.20E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.42E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.17E+08	

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
sy101	Sodium	12/1/91	B0B279	1.305	1.42E+08	ug/g	L	PRIMARY_RESULT	TCD	Na	2.17E+08	
AW102	Na	3/26/82	T1582	1.422	9.41E+00	M	L	Cloudy, Light Green	RAW	Na	2.16E+08	
AW103	Na	8/7/85	3936		9.39E+00	M	L	Water Wash	RAW	Na	2.16E+08	
AW102	Na	3/4/85	R-4149	1.4	9.35E+00	M	L		RAW	Na	2.15E+08	
SY101	Na	8/20/92			19.5	Wt%	L		RAW	Na	2.15E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.40E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.14E+08	
sy101	Sodium	12/1/91	B0B279	1.305	1.40E+08	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.14E+08	
sy101	Sodium	12/1/91	B0BB62	1.1	1.93E+05	ug/g	L	DUPLICATE_RESULT	TCD	Na	2.12E+08	
SY101	Na	10/6/92			19.3	Wt%	L		RAW	Na	2.12E+08	
SY102	Na TOT	11/20/80		1.5			F		RAW	Na	2.12E+08	
SY101	Na	8/20/92			1.92E+01	Wt%	L		RAW	Na	2.11E+08	
AN107	Na	12/4/86	R8650		9.15E+00	mol/l	P		RAW	Na	2.10E+08	
AN107	Na	3/30/87			9.15E+00	M	U		RAW	Na	2.10E+08	
AN107	Na	12/4/86	R-8650		9.15	moles/l	P	Supernate	Braun	Na	2.10E + 08	
AN107	Na	12/4/86			2.10E+02	g/L	P	Supernatant	Wastren	Na	2.10E+08	
AN107	Na	5/13/94	R4048 J-1815	1.349	2.07E+05	ug/mL	P	C-Cup Sample	RAW	Na	2.07E+08	
SY103	Na	12/30/88		1.54	5.73E-03	m/g	L		RAW	Na	2.03E+08	
AN107	Na	5/13/94	R4047 J-1812	1.345	2.01E+05	ug/mL	P	C-Cup Sample	RAW	Na	2.01E+08	
SY102	Na	5/2/89		1.57	8.72E+00	M	L		RAW	Na	2.01E+08	
AN105	Na	5/10/84	(R-9839)	1.390	8.71E+00	Moles/Liter	P		RAW	Na	2.00E+08	
AP105	Sodium	3/1/93	B08VX4	1.39	2.00E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.00E+08	
SY101	Na	8/20/92			1.81E+01	Wt%	L		RAW	Na	1.99E+08	
SY101	Na	8/20/92			18.0	Wt%	L		RAW	Na	1.98E+08	
AN103	Na	1/25/85	(R-3760)	1.41	8.60E+00	M	U	FEED	RAW	Na	1.98E+08	
AN107	Na	5/13/94	R3155	1.384	1.43E+01	Wt%	P		RAW	Na	1.98E+08	
AN107	Na	5/13/94	R3154	1.392	1.41E+01	Wt%	P		RAW	Na	1.96E+08	
AN107	Na	5/13/94	R4048 J-1814	1.352	1.96E+05	ug/mL	P	C-Cup Sample	RAW	Na	1.96E+08	
AN107	Na	5/13/94	R4047 J-1813	1.363	1.96E+05	ug/mL	P	C-Cup Sample	RAW	Na	1.96E+08	
AW105	Na	9/20/82			8.52E+00	M	L	No Solids	RAW	Na	1.96E+08	
AZ102	Na	5/2/90	R-280783		8.51E+00	M	P		RAW	Na	1.96E+08	
AZ102	Na	7/28/83	RAT-AZ102-4D	1.41	8.51	moles/l	P	Supernate	Braun	Na	1.96E + 08	
AN107	Na	3/6/85	RAT-AN107-1B		8.5	moles/l	P	Supernate	Braun	Na	1.96E + 08	
SY101	Na	10/6/92			17.7	Wt%	L		RAW	Na	1.95E+08	
AN107	Na	6/29/90	R5887		8.46E+00	M	P	Rest 30 days.	RAW	Na	1.95E+08	

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Tank Waste Source Term Inventory Validation
WCH Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information												Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L			
AN106	Na	7/21/87	R-2089	1.344	8.44E+00	M	P	RR	RAW	Na	1.94E+08			
AN106	Na	2/19/87	R-2089	1.344	8.44	moles/l	P	Supernate	Braun	Na	1.94E+08			
AP105	Sodium	3/1/93	B08VX8	1.377	1.93E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.93E+08			
AW103	Na	8/7/85	3937		8.38E+00	M	L	Water Wash	RAW	Na	1.93E+08			
AZ102	Na	9/20/82	RAT-AZ102-4C	1.39	8.14	moles/l	P	Supernate	Braun	Na	1.87E+08			
AP105	Sodium	3/1/93	B08VX8	1.377	1.87E+08	UG/L	L	PRIMARY RESULT	TCD	Na	1.87E+08			
AP105	Sodium	3/1/93	B08VX4	1.39	1.86E+08	UG/L	L	PRIMARY RESULT	TCD	Na	1.86E+08			
AW103	Na	8/7/85	3936	1.39	7.99E+00	M	F	Filtrate	RAW	Na	1.84E+08			
AW103	Na	8/7/85			7.99E+00	mol/l	P	Supernate	RAW	Na	1.84E+08			
AW103	Na	1/1/85	3936	1.39	7.99	moles/l	F	Filtrate	Braun	Na	1.84E+08			
AN105	Na	11/9/84		1.434	7.85E+00	M	U		RAW	Na	1.81E+08			
AN104	Na	7/2/84			1.80E+02	g/L	P	Supernatant	Wastren	Na	1.80E+08			
AN105	Na	11/9/84			1.80E+02	g/L	P	Supernatant	Wastren	Na	1.80E+08			
AW103	Na	1/1/85	3937	1.33	7.737	moles/l	F	Filtrate	Braun	Na	1.78E+08			
AW106	Na	4/10/85	R-4151	1.12	7.70E+00	M	U		RAW	Na	1.77E+08			
AW105	Na	10/29/85	7633	1.41	1.25E+01	wt%	U		RAW	Na	1.76E+08			
AW105	Na	10/29/85	7633	1.41	7.66E+00	mol/l	U		RAW	Na	1.76E+08			
AP105	Sodium	3/1/93	B0B3D2	1.329	1.75E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.75E+08			
AN102	Na	8/1/91		1.35	1.75E+05	ug/mL	P		RAW	Na	1.75E+08			
AP105	Sodium	3/1/93	B08VX5	1.34	1.74E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.74E+08			
AP105	Sodium	3/1/93	B0B3D1	1.334	1.74E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.74E+08			
AP105	Sodium	3/1/93	B08VX9	1.33	1.71E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.71E+08			
AP105	Sodium	3/1/93	B0B3D1	1.334	1.71E+08	UG/L	L	PRIMARY RESULT	TCD	Na	1.71E+08			
SY102	Na TOT	11/20/80		1.442			F		RAW	Na	1.71E+08			
AW105	Na	10/29/85	7628	1.35	7.40E+00	mol/l	U		RAW	Na	1.70E+08			
AW103	Na	8/7/85	3937	1.33	7.37E+00	M	F	Filtrate	RAW	Na	1.70E+08			
AW105	Na	10/29/85	7628	1.35	1.25E+01	wt%	U		RAW	Na	1.69E+08			
AP105	Sodium	3/1/93	B08VX5	1.34	1.68E+08	UG/L	L	PRIMARY RESULT	TCD	Na	1.68E+08			
AP105	Sodium	3/1/93	B0B3D2	1.329	1.68E+08	UG/L	L	PRIMARY RESULT	TCD	Na	1.68E+08			
AW101	Na	7/2/86		1.5	1.12E+01	Wt%	F	FILTRATE	RAW	Na	1.68E+08			
AW101	Na	6/30/86		1.54	1.09E+01	Wt%	F	FILTRATE	RAW	Na	1.68E+08			
sy101	Sodium	12/1/91	B0B276	1.19	8.68E+07	ug/g	L	DUPLICATE RESULT	TCD	Na	1.67E+08			
AP105	Sodium	3/1/93	B08VX1	1.34	1.67E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.67E+08			
AP105	Sodium	3/1/93	B08VX1	1.34	1.67E+08	UG/L	L	DUPLICATE RESULT	TCD	Na	1.67E+08			

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
ASA Value: 3.29E+08 ug/L

Tank Waste Characterization Sample Information										
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte Information
AP105	Sodium	3/1/93	B08VX9	1.33	1.67E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.67E+08
AP105	Sodium	3/1/93	B08VX0	1.35	1.66E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.66E+08
AP105	Sodium	3/1/93	B08VX0	1.35	1.66E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.66E+08
AP105	Sodium	3/1/93	B08VX0	1.35	1.66E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.66E+08
AW105	Na	10/29/85	7627	1.36	1.22E+01	wt%	U		RAW	Na 1.66E+08
AW105	Na	10/29/85	7627	1.36	7.21E+00	mol/l	U		RAW	Na 1.66E+08
AW101	Na	6/26/86		1.49	1.11E+01	Wt%	F	FILTRATE	RAW	Na 1.65E+08
AN105	Na	5/10/84	(R-9840)		7.08E+00	Moles/Liter	P		RAW	Na 1.63E+08
sy101	Sodium	12/1/91	B08VX0	1.19	8.43E+07	ug/g	L	PRIMARY_RESULT	TCD	Na 1.63E+08
AP105	Sodium	3/1/93	B08VX1	1.34	1.62E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.62E+08
AP105	Sodium	3/1/93	B08VX1	1.34	1.62E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.62E+08
AP105	Sodium	3/1/93	B08VX1	1.34	1.62E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.62E+08
AN106	Na	7/21/87	R2090	1.320	6.90E+00	M	U	Unknown (Rerun Value)	RAW	Na 1.59E+08
AN106	Na	2/19/87	R-2090	1.32	6.9	moles/l	P	Supernate	Braun	Na 1.59E+08
AP105	Sodium	3/1/93	B08VX0	1.35	1.58E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.58E+08
AN106	Na	7/21/87	R-2089	1.344	6.83E+00	M	P		RAW	Na 1.57E+08
AP105	Sodium	3/1/93	B08VX3	1.3	1.53E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.53E+08
AP105	Sodium	3/1/93	B08VX6	1.34	1.53E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.53E+08
AP105	Sodium	3/1/93	B08VX7	1.3	1.53E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.53E+08
sy101	Sodium	12/1/91	B08VX3	1.267	1.20E+05	MG/L	L	PRIMARY_RESULT	TCD	Na 1.52E+08
AN107	Na	5/13/94	R2686	1.047	1.44E+01	Wt%	P		RAW	Na 1.51E+08
AN101	Na	7/4/88	T-672	1.2563	6.57E+00	M	L		RAW	Na 1.51E+08
AN101	Na	7/4/88			1.51E+02	g/L	P	Supernate	Wastren	Na 1.51E+08
AW102	Na TOT	10/11/82	3256	2.264			F	Filtrate	RAW	Na 1.50E+08
sy101	Sodium	12/1/91	B08VZ7	1.16	1.29E+05	MG/L	L	DUPLICATE_RESULT	TCD	Na 1.50E+08
sy101	Sodium	12/1/91	B08VZ7	1.16	1.29E+05	MG/L	L	PRIMARY_RESULT	TCD	Na 1.50E+08
sy101	Sodium	12/1/91	B08VX3	1.267	1.18E+05	MG/L	L	DUPLICATE_RESULT	TCD	Na 1.50E+08
AP105	Sodium	3/1/93	B08VX2	1.298	1.49E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.49E+08
AP105	Sodium	3/1/93	B08VX3	1.3	1.49E+08	UG/L	L	PRIMARY_RESULT	TCD	Na 1.49E+08
sy101	Sodium	12/1/91	B08VZ7	1.16	1.28E+05	MG/L	L	PRIMARY_RESULT	TCD	Na 1.48E+08
sy101	Sodium	12/1/91	B08VX3	1.267	1.17E+05	MG/L	L	PRIMARY_RESULT	TCD	Na 1.48E+08
AP105	Sodium	3/1/93	B08VX6	1.34	1.48E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.48E+08
AP105	Sodium	3/1/93	B08VX7	1.3	1.48E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.48E+08
AP105	Sodium	3/1/93	B08VX3	1.3	1.44E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na 1.44E+08
AN106	Na	7/21/87	R2090	1.320	6.23E+00	M	U		RAW	Na 1.43E+08

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP105	Sodium	3/1/93	B08VX2	1.298	1.43E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na	1.43E+08	
SY102	Na TOT	12/27/79					L		RAW	Na	1.34E+08	
AW105	Na	10/29/85	7625	1.34	9.91E+00	wt%	U		RAW	Na	1.33E+08	
AW105	Na	10/29/85	7625	1.34	5.77E+00	mol/l	U		RAW	Na	1.33E+08	
AW106	Na	8/7/88			1.32E+02	g/L	P	Supernatant	Wastren	Na	1.32E+08	
AW102	Na TOT	11/4/82		1.264			F	Filtrate	RAW	Na	1.32E+08	
AW106	Na	8/7/86	T-1621	1.24	5.72E+00	M	L		RAW	Na	1.32E+08	
AW106	Na	8/7/88	T-1621	1.241	5.72	moles/l	P	Supernate	Braun	Na	1.32E+08	
AW104	Na	9/20/82		1.259	5.66E+00	M	L	Liquor	RAW	Na	1.30E+08	
AW105	Na	10/29/85	7626	1.34	5.65E+00	mol/l	U		RAW	Na	1.30E+08	
AW105	Na	10/29/85	7626	1.34	9.69E+00	wt%	U		RAW	Na	1.30E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.1	1.29E+05	MG/L	L	DUPLICATE_RESULT	TCD	Na	1.29E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.1	1.29E+05	MG/L	L	PRIMARY_RESULT	TCD	Na	1.29E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.1	1.28E+05	MG/L	L	PRIMARY_RESULT	TCD	Na	1.28E+08	
AY101	Na	9/20/82		1.241	5.47E+00	M	F		RAW	Na	1.26E+08	
AW102	Na TOT	12/20/82	83-3	1.25			O	Trace of Solids	RAW	Na	1.24E+08	
AN106	Na	2/19/87	R-2456	1.223	5.291	moles/l	P	Supernate	Braun	Na	1.22E+08	
AN106	Na	2/1/90			1.20E+02	g/L	P	Supernatant	Wastren	Na	1.20E+08	
sy101	Sodium	12/1/91	B0B9X3	1.1	1.20E+05	MG/L	L	PRIMARY_RESULT	TCD	Na	1.20E+08	
sy101	Sodium	12/1/91	B0B9X3	1.1	1.18E+05	MG/L	L	DUPLICATE_RESULT	TCD	Na	1.18E+08	
sy101	Sodium	12/1/91	B0B9X3	1.1	1.17E+05	MG/L	L	PRIMARY_RESULT	TCD	Na	1.17E+08	
AW106	Na	8/13/85		1.2	5.07E+00	M	L		RAW	Na	1.17E+08	
AW105	Na	10/29/85	7632	1.28	5.02E+00	mol/l	U		RAW	Na	1.15E+08	
AW105	Na	10/29/85	7632	1.28	9.02E+00	wt%	U		RAW	Na	1.15E+08	
AZ101	Na	4/8/86			5.00E+00	M	L		RAW	Na	1.15E+08	
AY101	Na TOT	4/15/81		1.261			F		RAW	Na	1.15E+08	
AZ101	Na	4/8/86			4.90E+00	M	P		RAW	Na	1.13E+08	
AZ101	Na	1/10/86		1.17	4.89E+00	M	P		RAW	Na	1.12E+08	
AZ101	Na	5/2/90	R-101283		4.89E+00	M	P		RAW	Na	1.12E+08	
AZ101	Na	#####	RAT-AZ101-1	1.17	4.89	moles/l	P	Supernate	Braun	Na	1.12E+08	
AW102	Na	3/10/86	R-8586	1.22	4.83E+00	M	L	No Solids	RAW	Na	1.11E+08	
AZ101	Na	5/2/90	R-280187		4.82E+00	M	P		RAW	Na	1.11E+08	
AZ101	Na	8/7/86	R9964/R0247	1.2	4.82	moles/l	P	Supernate	Braun	Na	1.11E+08	
AW101	Na	7/2/86	T-882	1.32	8.31E+00	Wt%	U	Evap feed	RAW	Na	1.10E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY102	Na	6/30/89		1.29	3.60E+00	mmol/g	P		RAW	Na	1.07E+08	
AP102	Sodium	4/1/93	B0B2T9	1.19	1.06E+08	UG/L	L	PRIMARY_RESULT	TCD	Na	1.06E+08	
AP102	Sodium	4/1/93	B0B2T9	1.19	1.06E+08	UG/L	L	PRIMARY_RESULT	TCD	Na	1.06E+08	
AP102	Sodium	4/1/93	B0B2T9	1.19	1.05E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na	1.05E+08	
AP102	Sodium	4/1/93	B0B2T9	1.19	1.05E+08	UG/L	L	DUPLICATE_RESULT	TCD	Na	1.05E+08	
AY101	Na TOT	8/30/78	1353	1.39			P		RAW	Na	1.04E+08	
AZ101	Na	9/1/89		1.2	3.76E+00	mmol/g	P		RAW	Na	1.04E+08	
AZ101	Na	9/1/89	RAT-AZ101-4A	1.2	3.76	mmol/gm	P	Supernate	Braun	Na	1.04E+08	
AZ101	Na	3/11/88			4.42E+00	M	P		RAW	Na	1.02E+08	
AZ101	Na	3/11/88	T-3493		4.42E+00	M	P		RAW	Na	1.02E+08	
AZ101	Na	3/11/88	T-3494		4.42E+00	M	P		RAW	Na	1.02E+08	
AZ101	Na	5/2/90	R-110388		4.42E+00	M	P		RAW	Na	1.02E+08	
AZ101	Na	10/1/87	RAT-AZ101-6A		4.42	moles/l	P	Supernate	Braun	Na	1.02E+08	
SY102	Na	11/1/88		1.18	4.28E+00	M	L	3+Upper 4	RAW	Na	9.84E+07	
SY102	Na	1/4/89	R-4332	1.18	4.28E+00	M	L		RAW	Na	9.84E+07	
AW101	Na	6/26/86	T-686	1.31	7.33E+00	Wt%	U	Evap feed	RAW	Na	9.60E+07	
AW101	Na	6/23/86	T-621	1.44	6.65E+00	Wt%	U	Evap feed	RAW	Na	9.58E+07	
AY101	Na	5/25/77		1.173	4.16E+00	M	L		RAW	Na	9.57E+07	
AN101	Na	12/19/90	R3820	1.15	8.26E+04	ppm	O		RAW	Na	9.50E+07	
SY102	NaOH	11/20/80		1.5	4.12E+00	M	L		RAW	Na	9.48E+07	
AW101	Na	6/23/86		1.37	6.90E+00	Wt%	F	filtrate	RAW	Na	9.45E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	8.52E+07	PPB	L	PRIMARY_RESULT	TCD	Na	9.32E+07	
AY101	Na	1/15/76	T-799		4.03E+00	M	L		RAW	Na	9.27E+07	
sy101	Sodium	12/1/91	B0BB23	1.144	8.02E+04	MG/L	L	PRIMARY_RESULT	TCD	Na	9.17E+07	
AY101	Na	10/8/75			3.97E+00	M	L		RAW	Na	9.13E+07	
SY102	Na	1/25/90	102SY3T4L		3.60E+00	mmol/g	P		RAW	Na	9.11E+07	
sy101	Sodium	12/1/91	B0BB23	1.144	7.94E+04	MG/L	L	DUPLICATE_RESULT	TCD	Na	9.08E+07	
AN107	Na	5/13/94	R4047 J-1820	1.157	8.75E+04	ug/mL	P	Water Wash	RAW	Na	8.75E+07	
AW103	Na	8/7/85	4013		3.69E+00	M	L	Water Wash	RAW	Na	8.49E+07	
AN107	Na	5/13/94	R4047 J-1819	1.150	8.41E+04	ug/mL	P	Water Wash	RAW	Na	8.41E+07	
SY102	Na TOT	4/15/81		1.131			L		RAW	Na	8.31E+07	
AY101	Na	11/18/75	T-9566		3.60E+00	M	L		RAW	Na	8.28E+07	
AW102	Na TOT	4/1/83	4289	1.18			L	Clear	RAW	Na	8.18E+07	
sy101	Sodium	12/1/91	B0BB23	1.1	8.02E+04	MG/L	L	PRIMARY_RESULT	TCD	Na	8.02E+07	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
AW105	Na	10/29/85	7631	1.22	6.57E+00	wt%	U		RAW	Na	8.02E+07	
AW105	Na	10/29/85	7631	1.22	3.48E+00	mol/l	U		RAW	Na	8.00E+07	
SY101	Na	6/11/80		1.1057	3.47E+00	M	P		RAW	Na	7.98E+07	
SY101	Na	6/11/80	T-1227	1.1057	3.47	moles/l	P	Supernate	Braun	Na	7.98E + 07	
sy101	Sodium	12/1/91	B0BB23	1.1	7.94E+04	MG/L	L	DUPLICATE_RESULT	TCD	Na	7.94E+07	
AY101	Na	8/30/78	1353	1.39	3.37E+00	M	P		RAW	Na	7.75E+07	
sy101	Sodium	12/1/91	B0BB23	1.144	6.63E+04	MG/L	L	PRIMARY_RESULT	TCD	Na	7.58E+07	
SY102	NaOH	12/27/79			3.21E+00	M	F		RAW	Na	7.38E+07	
SY102	Na TOT	11/21/82		1.128			L		RAW	Na	7.34E+07	
AZ101	Na	9/13/85		1.17	3.13E+00	M	P		RAW	Na	7.20E+07	
AZ101	Na	5/2/90	R-130985		3.13E+00	M	P		RAW	Na	7.20E+07	
AZ101	Na	9/13/85	RAT-AZ101-3A	1.17	3.13	moles/l	P	Supernate	Braun	Na	7.20E + 07	
AW101	Na	7/6/86	T-959	1.23	5.77E+00	Wt%	U	Evap feed	RAW	Na	7.10E+07	
AW103	Na	8/7/85	4013	1.13	3.04E+00	M	F	Filtrate	RAW	Na	6.99E+07	
AW103	Na	1/1/85	4013	1.13	3.04	moles/l	F	Filtrate	Braun	Na	6.99E + 07	
AZ102	Na	6/26/79	RAT-AZ102-4a	1.39	3	moles/l	P	Supernate	Braun	Na	6.90E + 07	
AY101	Na	2/28/85	R-3642	1.12	2.96E+00	M	P		RAW	Na	6.81E+07	
AY101	Na	3/14/85		1.12	6.81E+04	mg/L	L		RAW	Na	6.81E+07	
AW103	Na+	11/30/84	2836		2.96E+00	M	P	Supernatant	RAW	Na	6.81E+07	
AW103	Na	8/1/84	2836		2.96	moles/l	P	Supernate	Braun	Na	6.81E + 07	
sy101	Sodium	12/1/91	B0BB23	1.1	6.63E+04	MG/L	L	PRIMARY_RESULT	TCD	Na	6.63E+07	
SY102	Na TOT	12/7/82		1.128			L		RAW	Na	6.51E+07	
AZ102	Na	5/2/90	R-60386		2.77E+00	M	P		RAW	Na	6.37E+07	
AZ102	Na	11/5/85	RAT-AZ102-2A	1.09	2.77	moles/l	P	Supernate	Braun	Na	6.37E + 07	
AY101	Na	2/28/85	R-3641	1.11	2.75E+00	M	P		RAW	Na	6.33E+07	
AY101	Na	2/28/85	R-3641	1.11	2.75	moles/l	P	Supernate	Braun	Na	6.33E + 07	
AY101	Na	1/21/76	T-1706		2.74E+00	M	L		RAW	Na	6.30E+07	
AZ101	Na TOT	8/27/81		1.143			F		RAW	Na	6.27E+07	
AZ102	Na	2/4/85	R-3699	1.11	2.72	moles/l	P	Supernate	Braun	Na	6.26E + 07	
AN101	Na	3/27/85	R-3963	1.02	2.71E+00	M	P		RAW	Na	6.23E+07	
AN101	Na	3/27/85	R-3963	1.02	2.71	moles/l	P	Supernate	Braun	Na	6.23E + 07	
SY102	Na TOT	4/24/81		1.148			L		RAW	Na	6.21E+07	
AN107	Na	5/13/94	R4048 J-1818	1.141	6.10E+04	ug/mL	P	Water Wash	RAW	Na	6.10E+07	
AZ102	Na	2/4/85	R-3700	1.11	2.65	moles/l	P	Supernate	Braun	Na	6.10E + 07	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
AW102	Na	4/20/88			6.05E+01	g/L	P	Supernatant	Wastren	Na	6.05E+07	
AW102	Na	4/20/88	T-1521	1.16	2.63	moles/l	P	Supernate	Braun	Na	6.05E+07	
SY102	Na	2/22/91			5.40E+04	ppm	P	12M	RAW	Na	5.94E+07	
AZ101	Na	5/1/89		1.24	2.02E+03	umol/g	P	Core 2	RAW	Na	5.76E+07	
AN106	Na	7/21/87	R-2088	1.142	2.50E+00	M	P		RAW	Na	5.75E+07	
AN106	Na	2/19/87	R-2088	1.142	2.5	moles/l	P	Supernate	Braun	Na	5.75E+07	
AZ101	Na	May 89			5.67E+01	g/L	P	Supernatant	Wastren	Na	5.67E+07	
AZ101	Na	9/1/90	RAT-AZ101-5A	1.22	2020	umol/gm	P	Supernate	Braun	Na	5.67E+07	
SY102	Na	2/22/91			5.00E+04	ppm	P	6M	RAW	Na	5.50E+07	
SY102	Na	2/22/91			4.96E+04	ppm	P	9M	RAW	Na	5.46E+07	
AW102	Na TOT	4/1/83	4289	1.18			P	Supernate	Braun		5.44E+07	
SY102	Na	2/22/91			4.80E+04	ppm	P	3M	RAW	Na	5.28E+07	
AY101	NA	6/23/87		1.09	2.21E+00	M	P		RAW	NA	5.08E+07	
AY101	Na	3/1/87	RAT-AY101-1	1.09	2.21	moles/l	P	Supernate	Braun	Na	5.08E+07	
AN107	Na	5/13/94	R4047 J-1821	1.349	5.08E+04	ug/mL	P	Water Wash	RAW	Na	5.08E+07	
AZ102	Na	Aug 89			4.96E+01	g/L	P	Supernatant	Wastren	Na	4.96E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	4.30E+07	PPB	L	PRIMARY_RESULT	TCD	Na	4.70E+07	
AZ102	Na	10/1/90			1.83E+03	umol/g	P		RAW	Na	4.63E+07	
AZ102	Na	9/1/93			1.83E+03	umol/g	P		RAW	Na	4.63E+07	
AY101	NA	7/20/88	8371	1.09	1.95E+00	M	P		RAW	NA	4.49E+07	
AY101	Na	7/20/88	R-8371	1.09	44.83	gm/l	P	Supernate	Braun	Na	4.48E+07	
AY101	Na	7/20/88			4.48E+01	g/L	P	Supernatant	Wastren	Na	4.48E+07	
AZ101	Na TOT	4/26/78		1.133			L		RAW	Na	4.44E+07	
AY102	Na	6/18/82		1.056	1.90E+00	M	P		RAW	Na	4.37E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	3.88E+07	PPB	L	DUPLICATE_RESULT	TCD	Na	4.24E+07	
AW105	Na	5/1/86	RAT-AW105-2A	1.079	38400	ugm/gm	P	Supernate	Braun	Na	4.14E+07	
SY102	NaOH	11/20/80		1.442	1.80E+00	M	L		RAW	Na	4.14E+07	
sy101	Sodium	12/1/91	B0BB41	1.072	3.86E+04	MG/L	L	DUPLICATE_RESULT	TCD	Na	4.14E+07	
AN106	Na	9/16/87	R-2087	1.087	1.79E+00	M	P		RAW	Na	4.12E+07	
AN106	Na	2/19/87	R-2087	1.087	1.79	moles/l	P	Supernate	Braun	Na	4.12E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	3.74E+07	PPB	L	PRIMARY_RESULT	TCD	Na	4.09E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	3.71E+07	PPB	L	PRIMARY_RESULT	TCD	Na	4.06E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	3.71E+07	PPB	L	PRIMARY_RESULT	TCD	Na	4.06E+07	
aw106	Sodium	12/1/93	B08VS6	1.094	3.71E+07	PPB	L	PRIMARY_RESULT	TCD	Na	4.06E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L
sy101	Sodium	12/1/91	B0BB41	1.072	3.72E+04	MG/L	L	PRIMARY RESULT	TCD	Na	3.99E+07
aw106	Sodium	12/1/93	B08VS6	1.094	3.62E+07	PPB	L	PRIMARY RESULT	TCD	Na	3.96E+07
aw106	Sodium	12/1/93	B08VS6	1.094	3.60E+07	PPB	L	PRIMARY RESULT	TCD	Na	3.94E+07
sy101	Sodium	12/1/91	B0BB41	1.1	3.86E+04	MG/L	L	DUPLICATE RESULT	TCD	Na	3.86E+07
sy101	Sodium	12/1/91	B0BB41	1.1	3.72E+04	MG/L	L	PRIMARY RESULT	TCD	Na	3.72E+07
AZ102	Na	5/2/90	R-880311		1.61E+00	M	P		RAW	Na	3.70E+07
AZ102	Na	10/1/87	RAT-AZ102-3		1.61	moles/l	P	Supernate	Braun	Na	3.70E + 07
AZ102	Na	5/2/90	R-81287		1.57E+00	M	P		RAW	Na	3.61E+07
aw106	Sodium	12/1/93	B08VS6	1.094	3.28E+07	PPB	L	DUPLICATE RESULT	TCD	Na	3.59E+07
AW103	Na+	11/30/84	2750		1.55E+00	M	P	Supernatant	RAW	Na	3.57E+07
AW103	Na	8/1/84	2750		1.55	moles/l	P	Supernate	Braun	Na	3.57E + 07
SY102	Na	3/12/93	R3353	1.064	3.55E+04	ug/mL	O	Bottom	RAW	Na	3.55E+07
AW101	Na	6/30/86	T-812	1.13	3.12E+00	Wt%	U	Evap feed	RAW	Na	3.53E+07
SY102	Na	7/1/88			1.53E+00	M	P		RAW	Na	3.52E+07
SY102	Na	7/1/88		1.128	1.51E+00	M	P		RAW	Na	3.47E+07
AW103	Na	6/15/83			1.48E+00	M	P	Supernatant	RAW	Na	3.40E+07
AW103	Na	8/1/84			1.48E+00	M	P	Supernatant	RAW	Na	3.40E+07
AW103	Na	6/1/84	202107A		1.48	moles/l	P	Supernate	Braun	Na	3.40E + 07
AW103	Na	6/15/85	RAT-AW103-2B		1.48	moles/l	P	Supernate	Braun	Na	3.40E + 07
AY102	Na	7/21/88	PNL12966	1.106	1.40E+00	M	L		RAW	Na	3.22E+07
SY102	Na	6/30/89		1.52	8.77E-01	mmol/g	P		RAW	Na	3.07E+07
AY102	Na	7/21/88	PNL12966	1.106	1.30E+00	M	L		RAW	Na	2.99E+07
AY102	Na	9/30/88			1.30E+00	M	L		RAW	Na	2.99E+07
aw106	Sodium	12/1/93	B08VS6	1.094	2.66E+07	PPB	L	PRIMARY RESULT	TCD	Na	2.91E+07
aw106	Sodium	12/1/93	B08VS6	1.094	2.64E+07	PPB	L	PRIMARY RESULT	TCD	Na	2.89E+07
AW105	Na	6/10/85	R-4036	0.974	1.22E+00	M	L	Clear	RAW	Na	2.81E+07
AW105	Na	1/1/85	R-4036	0.974	1.22	moles/l	L	Liquor	Braun	Na	2.81E + 07
AW-106	Na				2.47E+06	g-moles	L		TRAC	Na	2.79E+07
AW102	Na	4/20/88	T-8435	1.04	1.19	moles/l	P	Supernate	Braun	Na	2.74E + 07
AW102	NaOH	4/1/83	4289	1.18	1.19	moles/l	P	Supernate	Braun	Na	2.74E + 07
SY102	Na	10/1/88			2.62E+01	g/L	P	Supernatant	Wastren	Na	2.62E+07
AW105	Na	11/6/85	T-3475	1.06	1.12E+00	M	U	Unknown	RAW	Na	2.58E+07
AW101	Na	11/9/84	R-3185	1.024	1.11E+00	M	L	ALIUOTS	RAW	Na	2.55E+07
AW101	Na	4/21/85	T5351	1.0411	1.11E+00	M	P	Supernate	RAW	Na	2.55E+07

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
AW101	Na	11/9/84	R-3185	1.024	1.11	moles/l	P	Supernate	Braun	Na	2.55E + 07	
SY102	Na	6/1/88			1.09E+00	M	P		RAW	Na	2.51E+07	
SY102	Na	6/1/88	RAT-SY102-1		1.09	moles/l	P	Supernate	Braun	Na	2.51E + 07	
AW105	Na	5/10/84	R9837	1.02	1.07E+00	mol/l	L	Trace of solids	RAW	Na	2.46E+07	
AZ101	Na	9/10/84	2nd aliquote		1.07E+00	M	P		RAW	Na	2.46E+07	
AZ101	Na	6/1/84	RAT-AZ101-2B		1.07	moles/l	P	Supernate	Braun	Na	2.46E + 07	
AZ101	Na	5/2/90	R-100984		1.06E+00	M	P		RAW	Na	2.44E+07	
AZ101	Na	9/10/84			1.06E+00	M	P		RAW	Na	2.44E+07	
AZ101	Na	6/1/84	RAT-AZ101-2A		1.06	moles/l	P	Supernate	Braun	Na	2.44E + 07	
AW101	Na	8/18/85	T9368	1.0392	1.02E+00	M	P	Supernate	RAW	Na	2.34E+07	
AW101	Na	8/21/85	T-9368	1.0392	1.02E+00	M	O	two phases	RAW	Na	2.34E+07	
AW101	Na	11/9/84	R-3215	1.04	9.88E-01	M	L	ALICUOTS	RAW	Na	2.27E+07	
AY102	Na	11/9/84	R-3215	1.04	9.88E-01	M	U		RAW	Na	2.27E+07	
AY102	Na	11/9/84	R3215		9.88E-01	M	U		RAW	Na	2.27E+07	
AY102	Na	11/9/84	R-3215	1.04	0.988	moles/l	P	Supernate	Braun	Na	2.27E + 07	
SY102	Na	10/1/88	102-SY-1-2		0.877	mmol/gm	P	Supernate	Braun	Na	2.22E + 07	
SY102	Na	1/25/90	102SY1-2		8.77E-01	mmol/g	P		RAW	Na	2.22E+07	
SY102	Na	8/16/89	R-5028	1.013	9.50E-01	M	P		RAW	Na	2.19E+07	
sy101	Sodium	12/1/91	B0BBB5	1.1	2.15E+04	MG/L	L	PRIMARY RESULT	TCD	Na	2.15E+07	
AW103	Na	1/23/90			2.12E+01	g/L	P	Supernatant	Wastren	Na	2.12E+07	
AW105	Na	5/10/84	R9838		9.20E-01	mol/l	L	4' below	RAW	Na	2.12E+07	
AW103	Na	10/4/88	R-3760		9.20E-01	M	P	Supernate	RAW	Na	2.12E+07	
SY102	Na	8/16/89	R-5029	1.012	9.20E-01	M	P		RAW	Na	2.12E+07	
AY101	Na	10/3/79	1810		0.898	moles/l	P	Supernate	Braun	Na	2.07E + 07	
AW101	Na	4/21/85	T5350	1.0279	8.73E-01	M	L	NO SOLIDS	RAW	Na	2.01E+07	
SY102	Na	11/1/88		1.02	8.71E-01	M	L	1+2 Liquid	RAW	Na	2.00E+07	
SY102	Na	1/4/89	R-4331	1.02	8.71E-01	M	L		RAW	Na	2.00E+07	
SY102	Na	8/16/89	R-5027	1.014	8.60E-01	M	P		RAW	Na	1.98E+07	
AW103	Na	4/9/88	T-8200	1.04	8.59E-01	mol/l	L	No solids	RAW	Na	1.98E+07	
AW103	Na	4/9/88	T-8200	1.04	0.859	moles/l	P	Supernate	Braun	Na	1.98E + 07	
AW105	Na	6/24/88	T-7966	1.0081	8.47E-01	mol/l	P		RAW	Na	1.95E+07	
AW105	Na	4/5/88	T-7966	1.008	0.847	moles/l	P	Supernate	Braun	Na	1.95E + 07	
SY-103	Na				1.72E+06	g-moles	L		TRAC	Na	1.92E+07	
AW103	Na	1/23/90	RAT-AW103-1B		0.01635	gm/gm	P	Supernate	Braun	Na	1.80E + 07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information				ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
aw102	Sodium	12/1/93	B0BC12	1.03	1.73E+07	PPB	L	PRIMARY RESULT	TCO	Na	1.78E+07	
aw102	Sodium	12/1/93	B0BC12	1.03	1.70E+07	PPB	L	PRIMARY RESULT	TCO	Na	1.75E+07	
aw102	Sodium	12/1/93	B0BC12	1.03	1.68E+07	PPB	L	PRIMARY RESULT	TCO	Na	1.73E+07	
AW101	Na	11/9/84	R-3214	1.03	7.50E-01	M	L	ALICUOTS	RAW	Na	1.73E+07	
AY102	Na	11/9/84	R-3214	1.03	7.50E-01	M	U		RAW	Na	1.73E+07	
AY102	Na	11/9/84	R3214		7.50E-01	M	U		RAW	Na	1.73E+07	
AY102	Na	11/9/84	R-3214	1.03	0.75	moles/l	P	Supernate	Braun	Na	1.73E + 07	
AY102	Na	6/25/74	T-5314		7.44E-01	M	L		RAW	Na	1.71E+07	
aw102	Sodium	12/1/93	B0BC12	1.03	1.66E+07	PPB	L	PRIMARY RESULT	TCO	Na	1.71E+07	
aw102	Sodium	12/1/93	B0BC12	1.03	1.63E+07	PPB	L	DUPLICATE RESULT	TCO	Na	1.68E+07	
AY101	Na	10/3/79	1811		0.687	moles/l	P	Supernate	Braun	Na	1.58E + 07	
AW101	Na	11/6/85	T-2601	1.01	6.48E-01	M	P	6' BELOW	RAW	Na	1.49E+07	
SY-101	Na				2.74E+06	g-moles	L		TRAC	Na	1.47E+07	
AW105	Na	7/8/88	T-805	1.013	5.54E-01	M	L		RAW	Na	1.27E+07	
AW105	Na	7/8/88	T-805	1.013	5.54E-01	mol/l	P		RAW	Na	1.27E+07	
AW105	Na	8/17/88	T-805	1.01	0.554	moles/l	L	Liquor	Braun	Na	1.27E + 07	
AW105	Na	8/17/88			1.27E+01	g/L	P	Supernatant	Wastren	Na	1.27E+07	
AP102	Na	4/29/88	R-8469		1.25E+04	UG/ML	P	No Solids	RAW	Na	1.25E+07	
AP102	Na	4/29/88			1.25E+01	g/L	P	Supernatant	Wastren	Na	1.25E+07	
AP103	Sodium	11/1/91	B0BC21	1	1.20E+07	UG/L	L	PRIMARY RESULT	TCO	Na	1.20E+07	
AP104	Na	3/1/88	RAT-AP104-1A	1.03	11600	ppm	P	Supernate	Braun	Na	1.19E + 07	
AP104	Na	3/1/88	RAT-AP104-1B	1.01	11800	ppm	P	Supernate	Braun	Na	1.19E + 07	
AW101	Na	11/6/85	T-2641	1.01	5.16E-01	M	P	2' BELOW	RAW	Na	1.19E+07	
AW103	Na	3/26/86			5.11E-01	M	P	Supernatant	RAW	Na	1.18E+07	
AP102	Na	12/31/88		1.01	1.16E+04	ppm	U		RAW	Na	1.17E+07	
AP103	Sodium	11/1/91	B0BC21	1	1.17E+07	UG/L	L	PRIMARY RESULT	TCO	Na	1.17E+07	
AY102	Na	7/21/88	PNL12966	1.106	5.00E-01	M	L		RAW	Na	1.15E+07	
AP104	Na	3/1/88			1.13E+01	g/L	P	Supernatant	Wastren	Na	1.13E+07	
AP102	Na	2/11/93		0.956764	1.14E+04	ppm	U		RAW	Na	1.09E+07	
SY-102	Na				9.52E+05	g-moles	L		TRAC	Na	1.03E+07	
AY-101	Na				1.27E+06	g-moles	L		TRAC	Na	9.46E+06	
AZ-101	Na				1.22E+06	g-moles	L		TRAC	Na	9.31E+06	
AP104	Na	4/22/87	T-8530		0.402	moles/l	P	Supernate	Braun	Na	9.25E + 06	
SY102	Na	3/12/93	R3354	1.002	9.01E+03	ug/mL	L	no solids	RAW	Na	9.01E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
						Unit						
AY102	Na	7/21/88	PNL12966	1.106	3.80E-01	M	L		RAW	Na	8.74E+06	
AY102	Na	9/30/88			3.80E-01	M	L		RAW	Na	8.74E+06	
AW101	Na	3/30/86	T-7698	0.993	3.75E-01	M	L		RAW	Na	8.63E+06	
AW101	Na	3/30/86	T-7697	0.997	3.49E-01	M	L		RAW	Na	8.03E+06	
SY102	Na	3/12/93	R3355	1	7.19E+03	ug/mL	L	no solids	RAW	Na	7.19E+06	
AP106	Sodium	3/1/93	B0B2C0	1	6.86E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	6.86E+06	
AP106	Sodium	3/1/93	B0B2C0	1	6.75E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	6.75E+06	
AY101	Na	9/19/75			2.91E-01	M	L		RAW	Na	6.69E+06	
AP103	Sodium	11/1/91	B0BC21	1	6.57E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	6.57E+06	
AP103	Sodium	11/1/91	B0BC21	1	6.51E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	6.51E+06	
AP106	Sodium	3/1/93	B0B2C2	0.997	5.48E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.48E+06	
AP106	Sodium	3/1/93	B0B2C2	0.997	5.48E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.48E+06	
AP106	Sodium	3/1/93	B0B2C2	0.997	5.46E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.46E+06	
AP106	Sodium	3/1/93	B0B2C2	0.997	5.46E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.46E+06	
AP106	Sodium	3/1/93	B0B2C3	0.993	5.45E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.45E+06	
AP106	Sodium	3/1/93	B0B2C3	0.993	5.43E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.43E+06	
AP106	Sodium	3/1/93	B0B2C5	0.994	5.42E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.42E+06	
AP106	Sodium	3/1/93	B0B2C5	0.994	5.41E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.41E+06	
AP106	Sodium	3/1/93	B0B2B8	0.997	5.30E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.30E+06	
AP106	Sodium	3/1/93	B0B2B8	0.997	5.21E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.21E+06	
AP106	Sodium	3/1/93	B0B2C1	0.996	5.20E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	5.20E+06	
AP106	Sodium	3/1/93	B0B2C1	0.996	5.09E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	5.09E+06	
AP104	Na	7/10/87	T-513		2.21E-01	M	P		RAW	Na	5.08E+06	
AP104	Na	7/10/87	T-513		0.221	moles/l	P	Supernate	Braun	Na	5.08E+06	
AP106	Sodium	3/1/93	B0B2B9	0.998	4.97E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	4.97E+06	
AP106	Sodium	3/1/93	B0B2B9	0.998	4.92E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	4.92E+06	
AP103	Sodium	11/1/91	B0BC21	1	4.87E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	4.87E+06	
AN101	Na	7/4/88	T-671	0.9656	2.11E-01	M	L		RAW	Na	4.85E+06	
AP103	Sodium	11/1/91	B0BC21	1	3.82E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	3.82E+06	
AP103	Sodium	11/1/91	B0BC21	1	3.70E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	3.70E+06	
AP103	Sodium	11/1/91	B0BC21	1	3.69E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	3.69E+06	
AP103	Sodium	11/1/91	B0BC21	1	3.64E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	3.64E+06	
AP103	Sodium	11/1/91	B0BC21	1	2.46E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.46E+06	
AP107	Sodium	8/1/93	B08W51	0.99	2.45E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.45E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP107	Sodium	8/1/93	B08W51	0.99	2.43E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.43E+06	
AN101	Na	3/27/85	T-2833	1.00	1.02E-01	M	P		RAW	Na	2.35E+06	
AP107	Sodium	8/1/93	B08W52	0.987	2.34E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.34E+06	
AP103	Sodium	11/1/91	B0BC21	1	2.32E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.32E+06	
AP107	Sodium	8/1/93	B08W50	0.991	2.31E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.31E+06	
AP107	Sodium	8/1/93	B08W50	0.991	2.31E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.31E+06	
AP107	Sodium	8/1/93	B08W52	0.987	2.29E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.29E+06	
AP107	Sodium	8/1/93	B08W49	0.99	2.26E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.26E+06	
AP107	Sodium	8/1/93	B08W49	0.99	2.23E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.23E+06	
AP107	Sodium	8/1/93	B08W50	0.991	2.23E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.23E+06	
AP107	Sodium	8/1/93	B08W50	0.991	2.23E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.23E+06	
AP107	Sodium	8/1/93	B08W49	0.99	2.23E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.23E+06	
AY102	Na	6/30/88			2.21E+00	g/L	P	Supernatant	Wastren	Na	2.21E+06	
AY102	Na	2/12/90		1	9.60E-02	M	P	2nd analysis	RAW	Na	2.21E+06	
AY102	Na	7/21/88	PNL12966	1.106	9.60E-02	M	P		RAW	Na	2.21E+06	
AY102	Na	2/1/90	RAT-AY102-1A	1	0.096	moles/l	P	Supernate	Braun	Na	2.21E+06	
AP107	Sodium	8/1/93	B08W49	0.99	2.19E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.19E+06	
AP107	Sodium	8/1/93	B08W48	0.99	2.18E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	2.18E+06	
AY102	Na	2/1/90		1	2.16E+03	mg/L	L		RAW	Na	2.16E+06	
AY102	Na	2/12/90		1	9.10E-02	M	P	1st analysis	RAW	Na	2.09E+06	
AY102	Na	7/21/88	PNL12966	1.106	9.10E-02	M	P		RAW	Na	2.09E+06	
AY102	Na	9/30/88		1	9.10E-02	M	P		RAW	Na	2.09E+06	
AP103	Sodium	11/1/91	B0BC21	1	2.05E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	2.05E+06	
AP107	Sodium	8/1/93	B08W48	0.99	1.98E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	1.98E+06	
AP103	Na	4/6/88	R-8090		7.53E-02	M	L	No solids	RAW	Na	1.73E+06	
AP103	Na	4/6/88	RAT-AP103-1		0.0753	moles/l	P	Supernate	Braun	Na	1.73E+06	
AP103	Na	4/6/88			1.73E+00	g/L	P	Supernatant	Wastren	Na	1.73E+06	
AP103	Na	2/8/88	R-7369		6.76E-02	M	P	No solids	RAW	Na	1.55E+06	
AP103	Na	2/8/88	RAT-AP103-2		0.0676	moles/l	P	Supernate	Braun	Na	1.55E+06	
AP103	Na	2/8/88	RAT-AP103-4		0.0648	moles/l	P	Supernate	Braun	Na	1.49E+06	
AZ-102	Na				2.25E+05	g-moles	L		TRAC	Na	1.48E+06	
AP101	Sodium	7/1/93	B0B2G7	0.987	1.47E+06	UG/L	L	DUPLICATE_RESULT	TCD	Na	1.47E+06	
AY-102	Na				5.04E+04	g-moles	L		TRAC	Na	1.35E+06	
AP101	Sodium	7/1/93	B0B2G7	0.987	1.34E+06	UG/L	L	PRIMARY_RESULT	TCD	Na	1.34E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Liquids [Sketch ES-VAL-CC75]
 ASA Value: 3.29E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L	ID
AP101	Sodium	7/1/93	B0B2H1	0.985	1.33E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.33E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.33E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.33E+06	
AP101	Sodium	7/1/93	B0B2H0	0.986	1.33E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.33E+06	
AP101	Sodium	7/1/93	B0B2G9	0.988	1.31E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.31E+06	
AP101	Sodium	7/1/93	B0B2H0	0.986	1.31E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.31E+06	
AP101	Sodium	7/1/93	B0B2G9	0.988	1.31E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.31E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.29E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.29E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.29E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.29E+06	
AP101	Sodium	7/1/93	B0B2G9	0.988	1.28E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.28E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.27E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.27E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.27E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.27E+06	
AP101	Sodium	7/1/93	B0B2H0	0.986	1.27E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.27E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.27E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.27E+06	
AP101	Sodium	7/1/93	B0B2H1	0.985	1.27E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.27E+06	
AP101	Sodium	7/1/93	B0B2H0	0.986	1.25E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.25E+06	
AP101	Sodium	7/1/93	B0B2G9	0.988	1.24E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.24E+06	
AZ102	Na	1/30/86	T-5387	1.008	0.0502	moles/l	P	Supernate	Braun	Na	1.15E+06	
AP101	Sodium	7/1/93	B0B2G8	0.983	1.12E+06	UG/L	L	PRIMARY RESULT	TCD	Na	1.12E+06	
AP101	Sodium	7/1/93	B0B2G8	0.983	1.11E+06	UG/L	L	DUPLICATE RESULT	TCD	Na	1.11E+06	
AP103	Na	1/30/88	R-7370		4.57E-02	M	P		RAW	Na	1.05E+06	
AP103	Na	1/30/88	RAT-AP103-3	0.9781	0.0457	moles/l	P	Supernate	Braun	Na	1.05E+06	
Minimum Plot Limit: 1.00E+05 ug/L												
SY103	Na	12/30/88		1.54	2.33E-03	M	L		RAW	Na	5.36E+04	
AN101	Na	3/27/85	T-2832		1.1E-04	M	P		RAW	Na	2.53E+03	
AW-102	Na				1.14E+01	g-moles	L		TRAC	Na	2.31E+03	
AW-101	Na				3.41E+00	g-moles	L		TRAC	Na	2.30E+03	
AW-103	Na				3.63E+02	g-moles	L		TRAC	Na	2.30E+03	
AW-105	Na				3.55E+02	g-moles	L		TRAC	Na	2.29E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte Information	ug/L	ID
AW101	Na	12/19/91		10.01	90640	M	I		RAW	Na	2.08E+12	19
AN103	Na	1/13/88		1.7	2.05	mol/g	R	Core 9	RAW	Na	8.02E+10	6
AN103	Na	1/13/88		1.72	1.78	mol/g	R	Core 8	RAW	Na	7.04E+10	6
AN103	Na	1/13/88		1.73	1.3	mol/g	R	Core 14	RAW	Na	5.17E+10	6
AN103	Na	1/13/88		1.73	1.3	mol/g	S	Core 14	RAW	Na	5.17E+10	6
AN103	Na	1/13/88		1.67	1.2	mol/g	R	Core 7	RAW	Na	4.61E+10	6
AN103	Na	1/13/88		1.66	1.2	mol/g	R	Core 13	RAW	Na	4.58E+10	6
AN103	Na	1/13/88		1.66	1.1	mol/g	S	Core 13	RAW	Na	4.20E+10	6
AN103	Na	1/13/88		1.66	0.97	mol/g	R	Core 3	RAW	Na	3.70E+10	6
AN103	Na	1/13/88		1.7	0.88	mol/g	R	Core 4	RAW	Na	3.44E+10	6
AN103	Na	1/13/88		1.71	0.85	mol/g	R	Core 10	RAW	Na	3.34E+10	6
AN103	Na	1/13/88		2.04	0.62	mol/g	R	Core 2	RAW	Na	2.91E+10	6
AN103	Na	1/13/88		1.78	0.53	mol/g	R	Core 1	RAW	Na	2.17E+10	6
AN103	Na	1/13/88		1.55	0.5	mol/g	R	Core 5	RAW	Na	1.78E+10	6
AN103	Na	1/13/88		1.82	0.37	mol/g	R	Core 6	RAW	Na	1.55E+10	6
AP106	Na	2/14/94		9.96E-01	5.53E+06	ug/mL	I		RAW	Na	5.53E+09	13
AN103	Na	1/13/88		1.66	0.065	mol/g	R	Core 13	RAW	Na	2.48E+09	6
AN103	Na	1/13/88		1.73	0.043	mol/g	R	Core 14	RAW	Na	1.71E+09	6
SY102	Na	12/27/79			38.4	M	S		RAW	Na	8.83E+08	35
SY-102	Na				7718000	g-moles	S		TRAC	Na	4.88E+08	4
ASA Value: 4.75E+08 ug/L												
SY103	Na	12/31/85			29.7	Wt%	I		RAW	Na	4.75E+08	*
sy101	Sodium	12/1/91	B0BBF3	1.6	260000	ug/g	S	DUPLICATE_RESULT	TCD	Na	4.16E+08	
AN103	Na	1/25/85	(R-3761)	1.49	17.8	M	R		RAW	Na	4.09E+08	
Preliminary ASA Value: 4.09E+08 ug/L												
sy101	Sodium	12/1/91	B0B271	1.63	2.5E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	4.06E+08	
sy101	Sodium	12/1/91	B0BBF3	1.6	252000	ug/g	S	PRIMARY_RESULT	TCD	Na	4.03E+08	
sy101	Sodium	12/1/91	B0B271	1.63	2.5E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	4.03E+08	
sy101	Sodium	12/1/91	B0B271	1.63	2.5E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	3.99E+08	
sy101	Sodium	12/1/91	B0BBX7	1.6	248000	ug/g	S	DUPLICATE_RESULT	TCD	Na	3.97E+08	
sy101	Sodium	12/1/91	B0BBB5	1.6	247000	ug/g	S	PRIMARY_RESULT	TCD	Na	3.95E+08	
SY101	Na	8/20/92			24.6	Wt%	S		RAW	Na	3.94E+08	
sy101	Sodium	12/1/91	B0B271	1.63	2.4E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	3.93E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	244000	ug/g	S	DUPLICATE_RESULT	TCD	Na	3.90E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	244000	ug/g	S	PRIMARY_RESULT	TCD	Na	3.90E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	243000	ug/g	S	DUPLICATE_RESULT	TCD	Na	3.89E+08	
sy101	Sodium	12/1/91	B0BBX7	1.6	243000	ug/g	S	PRIMARY_RESULT	TCD	Na	3.89E+08	
sy101	Sodium	12/1/91	B0BBX7	1.6	241000	ug/g	S	DUPLICATE_RESULT	TCD	Na	3.86E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
sy101	Sodium	12/1/91	B0BBX7	1.6	241000	ug/g	S	PRIMARY RESULT	TCD	Na	3.86E+08	
SY101	Na	8/20/92			23.8	Wt%	S		RAW	Na	3.81E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	236000	ug/g	S	PRIMARY RESULT	TCD	Na	3.78E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	235000	ug/g	S	PRIMARY RESULT	TCD	Na	3.76E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	234000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.74E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	234000	ug/g	S	PRIMARY RESULT	TCD	Na	3.74E+08	
SY101	Na	5/30/86	R-6394	1.69	16.16	M	S		RAW	Na	3.72E+08	
SY101	Na	5/30/86	R-6394	1.69	16.16	moles/l	Y	Slurry	Braun	Na	3.72E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	232000	ug/g	S	PRIMARY RESULT	TCD	Na	3.71E+08	
sy101	Sodium	12/1/91	B0BBD5	1.6	232000	ug/g	S	PRIMARY RESULT	TCD	Na	3.71E+08	
SY101	Na	8/20/92			23.2	Wt%	S		RAW	Na	3.71E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	229000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.66E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	229000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.66E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	226000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.62E+08	
SY101	Na	May 91			361	g/L	I	Composite 4	Wastren	Na	3.61E+08	
sy101	Sodium	12/1/91	B0BBX9	1.64	220000	PPM	S	PRIMARY RESULT	TCD	Na	3.61E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	225000	ug/g	S	PRIMARY RESULT	TCD	Na	3.60E+08	
SY101	Na	10/6/92			22.5	Wt%	I		RAW	Na	3.60E+08	
SY101	Na	10/6/92			22.5	Wt%	S		RAW	Na	3.60E+08	
SY101	Na	8/20/92			22.4	Wt%	S		RAW	Na	3.58E+08	
SY101	Na	8/20/92			22.4	Wt%	S		RAW	Na	3.58E+08	
sy101	Sodium	12/1/91	B0B9L9	1.659	216000	ug/g	S	PRIMARY RESULT	TCD	Na	3.58E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	223000	ug/g	S	PRIMARY RESULT	TCD	Na	3.57E+08	
SY101	Na	10/6/92			22.3	Wt%	I		RAW	Na	3.57E+08	
SY101	Na	10/6/92			22.3	Wt%	I		RAW	Na	3.57E+08	
sy101	Sodium	12/1/91	B0BBX9	1.64	216000	PPM	S	DUPLICATE RESULT	TCD	Na	3.54E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	220000	ug/g	S	PRIMARY RESULT	TCD	Na	3.52E+08	
SY101	Na	8/20/92			22.0	Wt%	S		RAW	Na	3.52E+08	
SY101	Na	8/20/92			22.0	Wt%	S		RAW	Na	3.52E+08	
SY101	Na	8/20/92			22.0	Wt%	S		RAW	Na	3.52E+08	
SY101	Na	10/6/92			22.0	Wt%	I		RAW	Na	3.52E+08	
SY101	Na	10/6/92			22.0	Wt%	S		RAW	Na	3.52E+08	
SY102	Na	10/1/88			350	g/L	G	Sludge	Wastren	Na	3.50E+08	
SY102	Na	6/30/89		1.8	8.45	mmol/g	S		RAW	Na	3.50E+08	
SY102	Na	1/25/90	102SY4B	1.8	8.45	mmol/g	S		RAW	Na	3.50E+08	
SY102	Na	10/1/88	102-SY-4B	1.8	8.45	mmol/gm	G	Sludge	Braun	Na	3.50E+08	
AN107	Na	6/29/90	R5887		9.48E-03	mol/g ppt	S	Parr Bomb	RAW	Na	3.49E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	218000	ug/g	S	PRIMARY RESULT	TCD	Na	3.49E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
sy101	Sodium	12/1/91	B0BBB5	1.6	217000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.47E+08	
sy101	Sodium	12/1/91	B0BBX9	1.64	211000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.46E+08	
SY101	Na	8/20/92			21.6	Wt%	S		RAW	Na	3.46E+08	
SY101	Na	8/20/92			21.6	Wt%	S		RAW	Na	3.46E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	215000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.44E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	215000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.44E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	214000	ug/g	S	PRIMARY RESULT	TCD	Na	3.42E+08	
sy101	Sodium	12/1/91	B0B9Z7	1.6	213000	ug/g	S	PRIMARY RESULT	TCD	Na	3.41E+08	
SY101	Na	May 91			340	g/L	S	Solids	Wastren	Na	3.40E+08	
sy101	Sodium	12/1/91	B0BBX9	1.64	207000	ug/g	S	PRIMARY RESULT	TCD	Na	3.39E+08	
SY101	Na TOT	4/28/77		1.389			R		RAW	Na	3.38E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	211000	ug/g	S	PRIMARY RESULT	TCD	Na	3.38E+08	
SY101	Na	10/6/92			21.1	Wt%	I		RAW	Na	3.38E+08	
AN103	Na	2/1/90			336	g/L	R	Slurry	Wastren	Na	3.36E+08	
sy101	Sodium	12/1/91	B0BB41	1.6	210000	ug/g	S	PRIMARY RESULT	TCD	Na	3.36E+08	
SY103	Na	12/31/85			20.95	Wt%	I		RAW	Na	3.35E+08	
SY101	Na	May 91			332	g/L	S	Solids	Wastren	Na	3.32E+08	
SY103	Na	12/31/85			20.7	Wt%	I		RAW	Na	3.31E+08	
SY101	Na	May 91			329	g/L	I	Composite 3	Wastren	Na	3.29E+08	
SY101	Na	5/30/86	R-6395	1.17	14.3	moles/l	Y	Slurry	Braun	Na	3.29E+08	
SY101	Na	5/30/86	R-6395	1.29	14.3	moles/l	Y	Slurry	Braun	Na	3.29E+08	
SY101	Na	8/20/92			20.5	Wt%	S		RAW	Na	3.28E+08	
SY101	Na	8/20/92			20.5	Wt%	S		RAW	Na	3.28E+08	
sy101	Sodium	12/1/91	B0BB23	1.6	204000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.26E+08	
sy101	Sodium	12/1/91	B0BB23	1.6	204000	ug/g	S	DUPLICATE RESULT	TCD	Na	3.26E+08	
SY101	Na	May 91			326	g/L	I	Composite	Wastren	Na	3.26E+08	
sy101	Sodium	12/1/91	B0B9X3	1.6	203000	ug/g	S	PRIMARY RESULT	TCD	Na	3.25E+08	
sy101	Sodium	12/1/91	B0BB23	1.6	203000	ug/g	S	PRIMARY RESULT	TCD	Na	3.25E+08	
SY101	Na	10/6/92			20.3	Wt%	I		RAW	Na	3.25E+08	
SY101	Na	10/6/92			20.3	Wt%	I		RAW	Na	3.25E+08	
sy101	Sodium	12/1/91	B0BB23	1.6	202000	ug/g	S	PRIMARY RESULT	TCD	Na	3.23E+08	
SY101	Na	10/6/92			20.1	Wt%	I		RAW	Na	3.22E+08	
AY102	Na TOT	4/15/81		1.385			R		RAW	Na	3.20E+08	
SY101	Na TOT	6/7/77		1.558			R		RAW	Na	3.16E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.4E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	3.14E+08	
sy101	Sodium	12/1/91	B0BBC7	1.6	195000	ug/g	S	PRIMARY RESULT	TCD	Na	3.12E+08	
SY101	Na	10/6/92			19.3	Wt%	I		RAW	Na	3.09E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	PRIMARY RESULT	TCD	Na	3.09E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code			Analyte	ug/L	
					Value	Unit						
AW104	Na	4/29/86	R-8586	1.48	13.4	M	R		RAW	Na	3.08E+08	
AW101	Na	6/28/90	RAT-AW101-1	1.54	13.4	moles/l	I	Composite	Braun	Na	3.08E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	3.07E+08	
SY101	Na	8/20/92			19.2	Wt%	S		RAW	Na	3.07E+08	
SY101	Na	8/20/92			19.2	Wt%	S		RAW	Na	3.07E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	PRIMARY RESULT	TCD	Na	3.06E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.3E+08	ug/g	S	PRIMARY RESULT	TCD	Na	3.06E+08	
AW102	Na	2/24/86	R4149	1.50	13.25	M	R		RAW	Na	3.05E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	PRIMARY RESULT	TCD	Na	3.05E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	3.02E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.3E+08	ug/g	S	PRIMARY RESULT	TCD	Na	3.02E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.98E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.94E+08	
SY103	Na	7/2/85	R-5257	1.5	12.75	moles/l	S	Slurry/Solids	Braun	Na	2.93E+08	
SY101	Na	11/18/90			12.57	M	S		RAW	Na	2.89E+08	
SY103	Na	12/31/85			18.04	Wt%	I		RAW	Na	2.89E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.2E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.89E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.88E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.3E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.88E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.2E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.87E+08	
SY101	Na	10/6/92			17.9	Wt%	I		RAW	Na	2.86E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.2E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.86E+08	
sy101	Sodium	12/1/91	B0B276	1.19	2.4E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.86E+08	
AW103	Na	1/23/90	RAT-AW103-1	1.75	0.163	gm/gm	S	Solids	Braun	Na	2.85E+08	
AW103	Na	1/23/90			285	g/L	G	Sludge	Wastren	Na	2.85E+08	
sy101	Sodium	12/1/91	B0B276	1.19	2.4E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.84E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.2E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.83E+08	
SY101	Na	10/6/92			17.7	Wt%	I		RAW	Na	2.83E+08	
sy101	Sodium	12/1/91	B0B276	1.19	2.4E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.81E+08	
sy101	Sodium	12/1/91	B0B276	1.19	2.4E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.81E+08	
sy101	Sodium	12/1/91	B0B280	1.33	2.1E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.79E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.2E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.77E+08	
sy101	Sodium	12/1/91	B0B279	1.306	2.1E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.74E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.2E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.74E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.2E+08	ug/g	S	DUPLICATE RESULT	TCD	Na	2.74E+08	
AW103	Na	1/23/90	RAT-AW103-1C		0.171	gm/gm	S	Solids	Braun	Na	2.74E+08	
SY101	Na	11/18/90			11.81	M	S		RAW	Na	2.72E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.2E+08	ug/g	S	PRIMARY RESULT	TCD	Na	2.69E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information								Sample State	Source	Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code			Analyte	ug/L	
sy101	Sodium	12/1/91	B0B282	1.235	2.2E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.69E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.2E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.67E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.2E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.67E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.2E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.67E+08	
SY103	Na	7/2/85	R-5256	1.35	11.53	moles/l	S	Slurry/Solids	Braun	Na	2.65E+08	
SY101	Na	5/30/86	R-6395	1.17	11.51	M	R		RAW	Na	2.65E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.64E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.64E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.64E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.64E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.64E+08	
SY103	Na	10/29/85	R-5255	1.69	11.44	M	R		RAW	Na	2.63E+08	
SY103	Na	6/24/85	R-5255	1.69	11.44	moles/l	S	Slurry/Solids	Braun	Na	2.63E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.63E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.63E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.61E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.61E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2.1E+08	ug/g	S	PRIMARY_RESULT	TCD	Na	2.58E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.54E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.53E+08	
sy101	Sodium	12/1/91	B0B282	1.235	2.1E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.53E+08	
AW102	Na TOT	4/1/83	4289	1.494			R	Slurry	RAW	Na	2.52E+08	
sy101	Sodium	12/1/91	B0B281	1.244	2E+08	ug/g	S	DUPLICATE_RESULT	TCD	Na	2.51E+08	
AZ102	Na	7/28/83	RAT-AZ102-6	1.41	10.875	moles/l	Y	Slurry	Braun	Na	2.50E+08	
SY101	Na	11/18/90			10.7	M	S		RAW	Na	2.46E+08	
AW104	Na	11/9/84	R-3206	1.41	10.625	moles/l	G	Sludge	Braun	Na	2.44E+08	
AW104	Na	11/9/84			244	g/L	R	Slurry	Wastren	Na	2.44E+08	
SY101	Na	11/18/90			10.56	M	S		RAW	Na	2.43E+08	
AW102	Na	2/4/86	T-5578	1.47	10.52	moles/l	Y	Slurry	Braun	Na	2.42E+08	
AN103	Na	3/28/86	R-8190	1.48	10.47	moles/l	G	Sludge	Braun	Na	2.41E+08	
SY101	Na	11/18/90			10.43	M	S		RAW	Na	2.40E+08	
AW101	Na	6/28/90	R-4792	1.53	10.4	moles/l	G	Sludge/Composite	Braun	Na	2.39E+08	
AW101	Na	6/28/90	R-4793	1.535	10.4	moles/l	G	Sludge/Composite	Braun	Na	2.39E+08	
AN102	Na	2/28/85			239	g/L	G	Sludge	Wastren	Na	2.39E+08	
SY102	Na TOT	5/17/77		1.469			R		RAW	Na	2.37E+08	
AW106	Na	8/13/85		1.2	10.3	M	Y		RAW	Na	2.37E+08	
AW101	Na	6/28/90	R-4796	1.63	10.3	moles/l	G	Sludge/Composite	Braun	Na	2.37E+08	
AW101	Na	6/28/90	R-4798	1.56	10.3	moles/l	G	Sludge/Composite	Braun	Na	2.37E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information	
					Value	Unit				Analyte	ug/L
AW102	Na	2/4/86	T-5579	1.49	10.26	moles/l	Y	Slurry	Braun	Na	2.36E+08
AW101	Na	6/28/90	R-4800	1.555	10.2	moles/l	G	Sludge/Composite	Braun	Na	2.35E+08
AW101	Na	6/28/90	R-4802	1.55	10.2	moles/l	G	Sludge/Composite	Braun	Na	2.35E+08
AW101	Na	6/28/90	R-4794	1.57	10.1	moles/l	G	Sludge/Composite	Braun	Na	2.32E+08
AN107	Na	6/29/90	R5887		6.28E-03	mol/g ppt	S	Rest 30 days	RAW	Na	2.31E+08
AW101	Na	6/28/90			230	g/L	R	Slurry	Wastren	Na	2.30E+08
AN106	Na	1/15/87	5001		10	M	I		RAW	Na	2.30E+08
AN103	Na	1/25/85	R-3644	1.36	9.95	moles/l	G	Sludge	Braun	Na	2.29E+08
AN103	Na	1/25/85	R-3644	1.36	9.95	M	R		RAW	Na	2.29E+08
AW101	Na	6/28/90	R-4801	1.555	9.88	moles/l	G	Sludge/Composite	Braun	Na	2.27E+08
AW101	Na	6/28/90	R-4799	1.555	9.87	moles/l	G	Sludge/Composite	Braun	Na	2.27E+08
AN107	Na	6/29/90	R5887		6.14E-03	mol/g ppt	S	Rest 24 hrs	RAW	Na	2.26E+08
AN107	Na	5/13/94	R4048		14.07	Wt%	G	Sludge	RAW	Na	2.25E+08
AN107	Na	5/13/94	R4047		14.03	Wt%	G	Sludge	RAW	Na	2.24E+08
AN103	Na	1/18/85	R3182	1.547	9.71	moles/L	Y		RAW	Na	2.23E+08
AN103	Na	12/4/87	R-3182	1.547	9.71	moles/l	Y		RAW	Na	2.23E+08
AW101	Na	6/28/90	R-4803	1.575	9.66	moles/l	G	Sludge/Composite	Braun	Na	2.22E+08
AW101	Na	6/28/90	R-4797	1.56	9.64	moles/l	G	Sludge/Composite	Braun	Na	2.22E+08
AN103	Na	1/25/85	R-3645	1.35	9.63	moles/l	G	Sludge	Braun	Na	2.21E+08
SY103	Na TOT	3/23/81		1.08			R		RAW	Na	2.21E+08
AW101	Na	6/28/90	R-4795	1.54	9.46	moles/l	G	Sludge/Composite	Braun	Na	2.18E+08
SY102	Na TOT	5/17/77		1.532			R		RAW	Na	2.14E+08
AW102	Na	1/18/85	R-3180	1.36	9.3	M	S	50% Solids	RAW	Na	2.14E+08
AN107	Na	5/13/94	R4048	1.473	14.07	Wt%	G		RAW	Na	2.07E+08
AN107	Na	5/13/94	R4047	1.464	14.03	Wt%	G		RAW	Na	2.05E+08
AW102	Na	1/18/85	R-3181	1.359	8.43	M	S	50% Solids	RAW	Na	1.94E+08
AW105	Na	2/24/87	T-7942	1.41	8.22	moles/l	I	Composite	Braun	Na	1.89E+08
AW105	Na	2/24/87	7942	1.57	8.22	mol/l	G	Sludge	RAW	Na	1.89E+08
AW101	Na	6/30/86	R-9895	1.57	11.65	Wt%	R	SLURRY	RAW	Na	1.83E+08
AZ102	Na	9/1/93			4940	umol/g	S	L3	RAW	Na	1.82E+08
AN105	Na	11/9/84	RAT-AN105-1	1.434	7.85	moles/l	G	Sludge	Braun	Na	1.81E+08
AW101	Na	7/2/86	R-9896	1.53	11.8	Wt%	R	SLURRY	RAW	Na	1.81E+08
AW106	Na	3/4/85	R-4151	1.12	7.7	M	R		RAW	Na	1.77E+08
AZ101	Na2O	9/1/89			14.82	wt %	S	core #1 Washed Solids	RAW	Na	1.76E+08
AW105	Na	2/24/87	7941	1.4	7.58	mol/l	G	Sludge	RAW	Na	1.74E+08
AY101	Na TOT	4/15/81		1.261			R		RAW	Na	1.74E+08
AW105	Na	2/24/87	T-7941	1.34	7.58	moles/l	I	Composite	Braun	Na	1.74E+08
SY101	Na	5/30/86	R-6396	1.33	7.35	M	R		RAW	Na	1.69E+08

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte Information	ug/L	ID
AW102	Na	1/18/85	R-3209	1.37	7.3	M	S	50% Solids	RAW	Na	1.68E+08	
AP105	Na	5/10/94		1.336	167000	ug/mL	I		RAW	Na	1.67E+08	
SY101	Na	5/30/86	R-6396	1.3	7.25	M	R		RAW	Na	1.67E+08	
AZ101	Na	5/1/89		1.84	3890	umol/g	S	Core 2	RAW	Na	1.65E+08	
AZ102	Na	11/5/85	RAT-AZ102-2B	1.4	7.08	moles/l	S	Solids	Braun	Na	1.63E+08	
SY102	Na	1/25/90	102SY3T4S		4.38	mmol/g	S		RAW	Na	1.61E+08	
AW101	Na	6/26/86	R-9894	1.5	10.55	Wt%	R	SLURRY	RAW	Na	1.58E+08	
AW105	Na	2/24/87	7940	1.37	6.72	mol/l	G	Sludge	RAW	Na	1.55E+08	
AW105	Na	2/24/87	T-7940	1.43	6.72	moles/l	I	Composite	Braun	Na	1.55E+08	
AN107	Na	5/13/94	R4047 J-1826		93300	ug/g	S	Solid Analysis by Fusion	RAW	Na	1.49E+08	
AN107	Na	5/13/94	R4047 J-1825		91500	ug/g	S	Solids Analysis by Acid Digestion	RAW	Na	1.46E+08	
AZ101	Na	May 89			145	g/L	G	Sludge	Wastren	Na	1.45E+08	
AZ101	Na	9/1/90	RAT-AZ101-5B	1.62	3890	umol/gm	I	Composite .	Braun	Na	1.45E+08	
SY102	Na	6/30/89		1.42	4.38	mmol/g	S		RAW	Na	1.43E+08	
AZ101	Na	4/8/86			6.1	M	S		RAW	Na	1.40E+08	
SY102	Na TOT	12/27/79					R		RAW	Na	1.39E+08	
AW105	Na	2/24/87	RAT-AW105-1	1.3	5.97	moles/l	G	Sludge/Composite	Braun	Na	1.37E+08	
AW105	Na	2/24/87			137	g/L	G	Sludge	Wastren	Na	1.37E+08	
AW105	Na	5/1/86	RAT-AW105-2B	1.2	112000	ugm/gm	G	Sludge	Braun	Na	1.34E+08	
AN107	Na	5/13/94	R4047 J-1825		83600	ug/g	S	Solid Analysis by Fusion	RAW	Na	1.34E+08	
AZ101	Na	9/1/89		1.7	3.42	mmol/g	S		RAW	Na	1.34E+08	
AZ101	Na	9/1/89	RAT-AZ101-4B	1.7	3.42	mmol/gm	S	Supernate/Solids	Braun	Na	1.34E+08	
AN107	Na	5/13/94	R4047 J-1824		82900	ug/g	S	Solids Analysis by Acid Digestion	RAW	Na	1.33E+08	
AZ101	Na	2/11/91			8.1	wt %	S	Core 3	RAW	Na	1.30E+08	
AW102	Na TOT	10/11/82	3256	1.262			R	Slurry	RAW	Na	1.26E+08	
AW102	Na TOT	11/4/82		1.262			R	Slurry	RAW	Na	1.26E+08	
AW105	Na	2/24/87	7946	1.365	5.38	mol/l	G	Sludge	RAW	Na	1.24E+08	
AW105	Na	2/24/87	T-7946	1.36	5.38	moles/l	I	Composite	Braun	Na	1.24E+08	
AW101	Na	1/13/86	R-7695	1.29	5.35	M	R	Feed slurry set	RAW	Na	1.23E+08	
AN107	Na	5/13/94	R4048 J-1827		76600	ug/g	S	Solids Analysis by Acid Digestion	RAW	Na	1.23E+08	
AW103	Na	#####	R-4346B	1.49	3.5	mmol/gm	S	Solids	Braun	Na	1.20E+08	
AN107	Na	5/13/94	R4047		7.33	Wt%	G	C-Sup	RAW	Na	1.17E+08	
AW106	Na	4/29/86	R-8587	1.24	5.05	M	S		RAW	Na	1.16E+08	
AN107	Na	5/13/94	R4047 J-1824		72300	ug/g	S	Solid Analysis by Fusion	RAW	Na	1.16E+08	
AN107	Na	5/13/94	R4047 J-1827		71800	ug/g	S	Solid Analysis by Fusion	RAW	Na	1.15E+08	
AN107	Na	5/13/94	R4048		7.14	Wt%	G	C-Solids	RAW	Na	1.14E+08	
AN107	Na	5/13/94	R4048		6.93	Wt%	G	C-Sup	RAW	Na	1.11E+08	
AZ101	Na	9/10/84			4.68	M	S		RAW	Na	1.08E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information		ID
					Value	Unit				Analyte	ug/L	
AN107	Na	5/13/94	R4047		6.71	Wt%	G	C-Solids	RAW	Na	1.07E+08	
AP102	Sodium	4/1/93	B0B2L9	1.2	1.1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.06E+08	
AP102	Sodium	4/1/93	B0B2L9	1.2	1.1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.06E+08	
AW101	Na	6/23/86	R-9893	1.36	7.65	Wt%	R	SLURRY	RAW	Na	1.04E+08	
AZ102	Na	11/5/85	RAT-AZ102-2C	1.26	4.49	moles/l	Y	Slurry	Braun	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2N3	1.6	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2L8	1.21	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2L8	1.21	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2M2	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2M2	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2M5	1.19	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2M5	1.19	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2N3	1.6	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.03E+08	
AP102	Sodium	4/1/93	B0B2L8	1.21	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2L8	1.21	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2L9	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2L9	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M6	1.21	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2T9	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2T9	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M0	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M0	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M6	1.21	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M7	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M7	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2T9	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2T9	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.02E+08	
AP102	Sodium	4/1/93	B0B2M0	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2M0	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2M1	1.21	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2N4	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2N4	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2M4	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2N4	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.01E+08	
AP102	Sodium	4/1/93	B0B2N4	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.01E+08	
AW105	Na	2/24/87	7939	1.245	4.36	mol/l	G	Sludge	RAW	Na	1.00E+08	
AW105	Na	2/24/87	T-7939	1.18	4.36	moles/l	I	Composite	Braun	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2L7	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Sodium	4/1/93	B0B2L7	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M5	1.19	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M5	1.19	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M7	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M7	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2N2	1.6	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2L7	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2L7	1.2	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M1	1.21	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	1.00E+08	
AP102	Sodium	4/1/93	B0B2M4	1.2	1E+08	UG/L	S	DUPLICATE RESULT	TCD	Na	9.99E+07	
AP102	Sodium	4/1/93	B0B2N2	1.6	1E+08	UG/L	S	PRIMARY RESULT	TCD	Na	9.97E+07	
AP102	Sodium	4/1/93	B0B2M3	1.2	9.9E+07	UG/L	S	PRIMARY RESULT	TCD	Na	9.91E+07	
AP102	Sodium	4/1/93	B0B2M3	1.2	9.9E+07	UG/L	S	PRIMARY RESULT	TCD	Na	9.91E+07	
AP102	Sodium	4/1/93	B0B2M2	1.2	9.9E+07	UG/L	S	DUPLICATE RESULT	TCD	Na	9.88E+07	
AP102	Sodium	4/1/93	B0B2M2	1.2	9.9E+07	UG/L	S	DUPLICATE RESULT	TCD	Na	9.88E+07	
AP102	Sodium	4/1/93	B0B2M3	1.2	9.8E+07	UG/L	S	DUPLICATE RESULT	TCD	Na	9.80E+07	
AP102	Sodium	4/1/93	B0B2M3	1.2	9.8E+07	UG/L	S	DUPLICATE RESULT	TCD	Na	9.80E+07	
AW101	Na	11/27/85	T-3048	1.18	4.23	M	R	Feed slurry set	RAW	Na	9.73E+07	
AW101	Na	11/27/85	T-3049	1.27	4.23	M	R	Feed slurry set	RAW	Na	9.73E+07	
AZ102	Na	9/1/93			2620	umol/g	S	L4	RAW	Na	9.64E+07	
AZ102	Na	10/1/90			2570	umol/g	S		RAW	Na	9.46E+07	
AZ102	Na	9/1/93			2570	umol/g	S		RAW	Na	9.46E+07	
AW103	Na+	11/30/84	2838		4.01	M	S	Water soluble Solids	RAW	Na	9.22E+07	
AN106	Na	2/19/87		1.22	90640	mg/L	I		RAW	Na	9.06E+07	
AN106	Na	2/19/87		1.22	89980	mg/L	I		RAW	Na	9.00E+07	
AW105	Na	2/24/87	7937	1.235	3.87	mol/l	G	Sludge	RAW	Na	8.90E+07	
AW105	Na	2/24/87	T-7937	1.17	3.87	moles/l	I	Composite	Braun	Na	8.90E+07	
AZ102	Na	Aug 89			88	g/L	G	Sludge	Wastren	Na	8.80E+07	
AZ102	Na	9/1/93			2210	umol/g	S	L1	RAW	Na	8.13E+07	
AW101	Na	7/6/86	R-9897	1.49	5.45	Wt%	R	SLURRY	RAW	Na	8.12E+07	
AW101	Na	1/13/86	R-7694	1.18	3.45	M	R	Feed slurry set	RAW	Na	7.94E+07	
SY102	Na	11/21/82		1.128	6.5	Wt%	Y		RAW	Na	7.33E+07	
AN107	Na	5/13/94	R4048		4.34	Wt%	G	WW-Solids	RAW	Na	6.94E+07	
AN107	Na	5/13/94	R4048		4.34	Wt%	S	WW-Solids	RAW	Na	6.94E+07	
AZ102	Na	9/1/93			1880	umol/g	S	L2	RAW	Na	6.92E+07	
SY102	Na	2/22/91			42600	ppm	S	12M	RAW	Na	6.82E+07	
AY101	Na	2/28/85	R-3642	1.12	2.96	moles/l	S	Supernate/Solids	Braun	Na	6.81E+07	
SY102	Na	2/22/91			40000	ppm	S	3M	RAW	Na	6.40E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information												ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AN102	Na	3/14/85			61.3	g/L	G	Sludge	Wastren	Na	6.13E+07	
AN107	Na	5/13/94	R4047		3.76	Wt%	G	WW-Solids	RAW	Na	6.02E+07	
AN107	Na	5/13/94	R4047		3.76	Wt%	S	WW-Solids	RAW	Na	6.02E+07	
SY102	Na	2/22/91			36500	ppm	S	9M	RAW	Na	5.84E+07	
AY102	Na	2/12/90	RAT-AY102-1B	1.4	1.8	mmol/gm	I	Composite	Braun	Na	5.80E+07	
AY102	Na	2/12/90		1.4	1.8	mmol/g	S	2nd analysis	RAW	Na	5.80E+07	
AY102	Na	2/1/90		1.4	41400	mg/kg	S		RAW	Na	5.80E+07	
AY102	Na	6/30/88			57.9	g/L	I	Composite	Wastren	Na	5.79E+07	
AN102	Na	3/14/85	R-3640		3.5	wt. %	S	Solids	Braun	Na	5.60E+07	
AN107	Na	5/13/94	R4047		2.95	Wt%	G	WW-Sup	RAW	Na	4.72E+07	
AY102	Na	7/21/88	PNL12966	1.106	1.8	mmol/g	I		RAW	Na	4.58E+07	
AN107	Na	5/13/94	R4048		2.8	Wt%	G	WW-Sup	RAW	Na	4.48E+07	
SY102	Na	2/22/91			26800	ppm	S	6M	RAW	Na	4.29E+07	
sy101	Sodium	12/1/91	B0BBB5	1.6	26600	ug/g	S	DUPLICATE RESULT	TCD	Na	4.26E+07	
AY102	Na	5/10/84	R-9834	1.07	1.83	M	R		RAW	Na	4.21E+07	
AN107	Na	5/13/94	R4048		2.63	Wt%	S	WW-ISL	RAW	Na	4.21E+07	
AN107	Na	5/13/94	R4047		2.48	Wt%	S	WW-ISL	RAW	Na	3.97E+07	
SY102	Na	11/21/82		1.128	3.4	Wt%	Y		RAW	Na	3.84E+07	
AY102	Na	5/10/84	R-9833	1.06	1.6	M	R		RAW	Na	3.68E+07	
SY102	Na	11/21/82		1.128	2.9	Wt%	Y		RAW	Na	3.27E+07	
AY102	Na	7/21/88	PNL12966	1.106	1.2	mmol/g	S		RAW	Na	3.05E+07	
SY102	Na	11/21/82		1.128	2.7	Wt%	Y		RAW	Na	3.05E+07	
AZ101	Na	5/1/89			769	umol/g	I	Core 2	RAW	Na	2.83E+07	
AZ101	Na	9/10/84			1.22	M	S		RAW	Na	2.81E+07	
AW103	Na	11/4/88	R-4251	1.46	1.2	M	G	Sludge	RAW	Na	2.76E+07	
AN107	Na	5/13/94	R4048		1.7107	Wt%	S	Solids Phase	RAW	Na	2.74E+07	
AZ101	Na	3/11/88	T-3494		1.18	M	S		RAW	Na	2.71E+07	
AZ101	Na	10/1/87	RAT-AZ101-6B		1.18	moles/l	G	Sludge/Composite	Braun	Na	2.71E+07	
AW101	Na	12/9/85	T-3475	1.06	1.12	M	R	Feed slurry set	RAW	Na	2.58E+07	
AW101	Na	11/9/84	R3185	1.024	1.110	M	I		RAW	Na	2.55E+07	
AW103	Na	11/4/88	R-4252	1.41	0.98	M	G	Sludge	RAW	Na	2.25E+07	
sy101	Sodium	12/1/91	B0BBB5	1.6	12900	ug/g	S	PRIMARY RESULT	TCD	Na	2.06E+07	
AN107	Na	5/13/94	R4047		1.279	Wt%	S	Solids Phase	RAW	Na	2.05E+07	
SY102	Na	11/21/82		1.128	0.86	M	Y		RAW	Na	1.98E+07	
SY102	Na	7/1/88			12.08	mgm/gm	S		RAW	Na	1.93E+07	
AZ101	Na	9/1/89		2.04	0.408	mmol/g	S		RAW	Na	1.91E+07	
AZ102	NaOH	7/28/83	RAT-AZ102-6	1.41	0.82	moles/l	Y	Slurry	Braun	Na	1.89E+07	
AZ101	Na	9/1/89		1.04	0.769	mmol/g	S		RAW	Na	1.84E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Double-Shell Tank Solids [Sketch ES-VAL-CC76]
 ASA Value: 4.75E+08 ug/L

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Tank Waste Characterization Sample Information								Analyte Information			
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	
					Value	Unit				Analyte	ug/L
SY102	Na	7/1/88		1.128	15.8	mg/g	S		RAW	Na	1.78E+07
SY102	Na	11/21/82		1.128	0.77	M	Y		RAW	Na	1.77E+07
AW103	Na	8/1/84	2836B	1.517	0.765	moles/l	S	Solids	Braun	Na	1.76E+07
AN107	Na	6/29/90	R5887		4.54E-04	mol/g ppt	S	Rest 30 days	RAW	Na	1.67E+07
AZ102	Na	9/1/93			449	umol/g	S	Washed Solids	RAW	Na	1.65E+07
AN107	Na	5/13/94	R4048 J-1826		10100	ug/g	S	Solids Analysis by Acid Digestion	RAW	Na	1.62E+07
AN106	Na	1/15/87	9138		7.00E-01	M	I		RAW	Na	1.61E+07
AN106	Na	1/15/87	9137		7.00E-01	M	I		RAW	Na	1.61E+07
AW103	Na	8/1/84	2838A	1.402	0.673	moles/l	S	Solids	Braun	Na	1.55E+07
AW103	Na	8/1/84	2837	1.426	0.626	moles/l	S	Solids	Braun	Na	1.44E+07
SY102	Na	11/21/82		1.128	0.55	M	Y		RAW	Na	1.27E+07
AP102	Na	4/29/88	R-8469		12500	ugm/ml	I	Composite	Braun	Na	1.25E+07
AP104	Na	3/7/88		1.03	11600	ppm	I		RAW	Na	1.19E+07
AP104	Na	3/7/88		1.01	11800	ppm	I		RAW	Na	1.19E+07
AZ102	Na	10/1/90		1.11	449	umol/g	S		RAW	Na	1.15E+07
AZ102	Na	10/1/90		1.49	331	umol/g	I		RAW	Na	1.13E+07
AZ101	Na	9/13/85	RAT-AZ101-3B		0.477	moles/l	S	Supernate/Solids	Braun	Na	1.10E+07
AN107	Na	6/29/90	R5887		2.82E-04	mol/g ppt	S	Rest 24 hrs	RAW	Na	1.04E+07
Minimum Plot Limit: 1.00E+07 ug/L											
SY102	Na	11/21/82		1.128	0.41	M	Y		RAW	Na	9.43E+06
AZ101	Na	5/1/89		1.14	299	umol/g	S	Core 2	RAW	Na	7.84E+06
SY102	Na	11/21/82		1.128	0.6	Wt%	Y		RAW	Na	6.77E+06
AW103	Na	8/1/84	2750B	1.415	0.226	moles/l	S	Solids	Braun	Na	5.20E+06
SY102	Na	11/21/82		1.128	0.3	Wt%	Y		RAW	Na	3.38E+06
SY102	Na	11/21/82		1.128	0.3	Wt%	Y		RAW	Na	3.38E+06
AY101	NA	7/20/88	8371		0.1	M	S		RAW	NA	2.30E+06
SY102	Na	11/21/82		1.128	0.07	M	Y		RAW	Na	1.61E+06
SY102	Na	11/21/82		1.128	0.02	M	Y		RAW	Na	4.60E+05
SY102	Na	11/21/82		1.128	0.02	M	Y		RAW	Na	4.60E+05
AN102	Na	8/1/91		1.74	31.4675	ug/mL	S	K/Ni Fusion	RAW	Na	3.15E+04
AW103	Na	8/1/84	2838B	1.65	0.0004	moles/l	S	Solids	Braun	Na	9.20E+03
AZ101	Na	1/10/86			5.12	ppm	R		RAW	Na	8.19E+03

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
ASA Value: 2.11E+08 ug/L

Tank Waste Characterization Sample Information										Analyte Information	
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L
AN103	OH	1/13/88			0.56	mol/g	P	Core 9	RAW	NaOH	2.46E+10
AN103	OH	1/13/88			0.53	mol/g	P	Core 10	RAW	NaOH	2.33E+10
AN103	OH	1/13/88			0.5	mol/g	P	Core 7	RAW	NaOH	2.20E+10
AN103	OH	1/13/88			0.45	mol/g	P	Core 3	RAW	NaOH	1.98E+10
AN103	OH	1/13/88			0.31	mol/g	P	Core 4	RAW	NaOH	1.36E+10
AN103	OH	1/13/88			0.28	mol/g	P	Core 8	RAW	NaOH	1.23E+10
AN103	OH	1/13/88			0.23	mol/g	P	Core 1	RAW	NaOH	1.01E+10
AN103	OH	1/13/88			0.21	mol/g	P	Core 2	RAW	NaOH	9.24E+09
AN103	OH	1/13/88			0.19	mol/g	P	Core 6	RAW	NaOH	8.36E+09
AN103	OH	1/13/88			0.17	mol/g	P	Core 5	RAW	NaOH	7.48E+09
AN103	OH	1/13/88			0.03	mol/g	P	Core 13	RAW	NaOH	1.32E+09
AN103	OH	1/13/88			0.022	mol/g	P	Core 14	RAW	NaOH	9.68E+08
AN105	OH-	11/9/84			379	g/L	P	Supernatant	Wastren	NaOH	8.92E+08
Preliminary ASA Value: 2.30E+08 ug/L											
ASA Value: 2.11E+08 ug/L											
AW-101	Hydroxide	6/28/90	16C/2b	1.51	5.28E+00	M	L	138 In from the bottom	RAW	NaOH	2.11E+08
AW-101	Hydroxide	6/28/90	22A/9a	1.55	5.25E+00	M	L	52 In from the bottom	RAW	NaOH	2.10E+08
AW-101	Hydroxide	6/28/90	22A/9b	1.57	5.25E+00	M	L	52 In from the bottom	RAW	NaOH	2.10E+08
AW-101	Hydroxide	6/28/90	22A/10a	1.56	5.25E+00	M	L	170 In from the bottom	RAW	NaOH	2.10E+08
AW-101	Hydroxide	6/28/90	10A/7a	1.56	5.22E+00	M	L	251 In from the bottom	RAW	NaOH	2.09E+08
AW-101	Hydroxide	6/28/90	22A/11a	1.55	5.21E+00	M	L	260 In from the bottom	RAW	NaOH	2.08E+08
AW-101	Hydroxide	6/28/90	10A/6a	1.57	5.15E+00	M	L	150 In from the bottom	RAW	NaOH	2.06E+08
AW-101	Hydroxide	6/28/90	10A/8b	1.55	5.13E+00	M	L	338 In from the bottom	RAW	NaOH	2.05E+08
AW-101	Hydroxide	6/28/90	16C/1a	1.55	5.12E+00	M	L	94 In from the bottom	RAW	NaOH	2.05E+08
AW-101	Hydroxide	6/28/90	10A/8a	1.56	5.12E+00	M	L	338 In from the bottom	RAW	NaOH	2.05E+08
AW-101	Hydroxide	6/28/90	10A/5a	1.67	5.10E+00	M	L	55 In from the bottom	RAW	NaOH	2.04E+08
AW-101	Hydroxide	6/28/90	22A/11b	1.55	5.10E+00	M	L	260 In from the bottom	RAW	NaOH	2.04E+08
AW-101	Hydroxide	6/28/90	16C/3a	1.58	5.08E+00	M	L	291 In from the bottom	RAW	NaOH	2.03E+08
AW-101	Hydroxide	6/28/90	16C/1b	1.51	5.07E+00	M	L	94 In from the bottom	RAW	NaOH	2.03E+08
AW-101	Hydroxide	6/28/90	16C/2a	1.56	5.03E+00	M	L	138 In from the bottom	RAW	NaOH	2.01E+08
AW-101	Hydroxide	6/28/90	16C/3b	1.56	5.01E+00	M	L	291 In from the bottom	RAW	NaOH	2.00E+08
AW-101	Hydroxide	6/28/90	22A/12b	1.58	5.01E+00	M	L	367 In from the bottom	RAW	NaOH	2.00E+08
AW-101	Hydroxide	6/28/90	10A/5b	1.58	5.00E+00	M	L	55 In from the bottom	RAW	NaOH	2.00E+08
AW-101	Hydroxide	6/28/90	10A/6b	1.55	5.00E+00	M	L	150 In from the bottom	RAW	NaOH	2.00E+08
AW-101	Hydroxide	6/28/90	10A/7b	1.56	5.00E+00	M	L	251 In from the bottom	RAW	NaOH	2.00E+08

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW-101	Hydroxide	6/28/90	16C/4b	1.53	4.94E+00	M	L	387 In from the bottom	RAW	NaOH	1.98E+08	
AW-101	Hydroxide	6/28/90	22A/10b	1.56	4.92E+00	M	L	170 In from the bottom	RAW	NaOH	1.97E+08	
AW-101	Hydroxide	6/28/90	16C/4a	1.55	4.86E+00	M	L	387 In from the bottom	RAW	NaOH	1.94E+08	
AW-101	Hydroxide	6/28/90	22A/12a	1.57	4.63E+00	M	L	367 In from the bottom	RAW	NaOH	1.85E+08	
AW102	OH	11/9/84	R3302	1.4	4.6	M	P		RAW	NaOH	1.84E+08	
AW102	OH	3/4/85	R-4149	1.5	4.5	M	F	Filtrate	RAW	NaOH	1.80E+08	
AW106	OH	3/4/85	R-4151	1.45	4.48	M	F		RAW	NaOH	1.79E+08	
AW106	OH	4/10/85	R-4151	1.45	4.48	M	F		RAW	NaOH	1.79E+08	
AN103	OH	7/2/84	R-9991	1.473	4.32	M	P		RAW	NaOH	1.73E+08	
SY102	NaOH	11/20/80		1.5	4.12	M	F		RAW	NaOH	1.65E+08	
AW102	OH	2/4/86	T-5578	1.47	4.11	M	U	Unknown	RAW	NaOH	1.64E+08	
AW102	OH	2/4/86	T-5579	1.49	4.05	M	U	Unknown	RAW	NaOH	1.62E+08	
AN104	OH-	7/2/84			68	g/L	P	Supernatant	Wastren	NaOH	1.60E+08	
AN104	OH	1/18/85	R-3184	1.38	3.98	M	P		RAW	NaOH	1.59E+08	
AN103	OH	1/25/85	(R-3760)	1.41	3.4	M	U	FEED	RAW	NaOH	1.36E+08	
AW102	NaOH	4/1/83	4289	1.43	3.32	M	F	Filtrate	RAW	NaOH	1.33E+08	
SY103	NaOH	3/23/81		1.47	3.3	M	F		RAW	NaOH	1.32E+08	
AW102	OH	3/22/82	T1562	1.422	3.28	M	L	Clear, Light Green	RAW	NaOH	1.31E+08	
AW102	OH	3/20/82	T1549	1.435	3.27	M	L	Cloudy, Green	RAW	NaOH	1.31E+08	
AN103	OH	1/25/85	R-3645	1.35	3.2	M	P		RAW	NaOH	1.28E+08	
AW104	OH	11/9/84	R-3206	1.41	3.1	M	L		RAW	NaOH	1.24E+08	
AW104	OH	11/9/84	R3206	1.410	3.100	M	U		RAW	NaOH	1.24E+08	
AZ101	OH	12/3/79	1464	1.409	3.04	M	L		RAW	NaOH	1.22E+08	
SY101	OH	7/14/80	T-1228	1.223	3.02	moles/l	P	Supernate	Braun	NaOH	1.21E+08	
AW105	OH	8/17/88	T-805	1.01	2.96	moles/l	P	Supernate	Braun	NaOH	1.18E+08	
AZ101	OH	12/3/79	1463	1.384	2.94	M	L		RAW	NaOH	1.18E+08	
AY102	OH	9/21/79	1508B	1.419	2.88	M	L		RAW	NaOH	1.15E+08	
AW106	OH	8/7/86	T-1621	1.24	2.85	M	L		RAW	NaOH	1.14E+08	
AY102	OH	9/21/79	1508D	1.396	2.76	M	L		RAW	NaOH	1.10E+08	
AW102	OH	11/9/84	R3302	1.32	2.75	M	L		RAW	NaOH	1.10E+08	
AW102	OH	3/26/82	T1582	1.422	2.73	M	L	Cloudy, Light Green	RAW	NaOH	1.09E+08	
AZ101	OH	12/3/79	1495B	1.448	2.7	M	L		RAW	NaOH	1.08E+08	
AZ101	OH	12/3/79	1465	1.41	2.68	M	L		RAW	NaOH	1.07E+08	
AZ101	OH	12/3/79	1494A	1.0414	2.66	M	L		RAW	NaOH	1.06E+08	
AZ101	OH	12/3/79	1495A	1.419	2.66	M	L		RAW	NaOH	1.06E+08	
AZ101	OH	12/3/79	1494B	1.42	2.65	M	L		RAW	NaOH	1.06E+08	
AW103	OH	12/8/83	K-16A	1.42	2.644	moles/l	P	Supernate	Braun	NaOH	1.06E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AW103	OH	4/12/83		1.42	2.64	M	P	Supernatant	RAW	NaOH	1.06E+08	
AZ101	OH	12/3/79	1466	1.414	2.64	M	L		RAW	NaOH	1.06E+08	
AW106	OH	4/10/85	R-4151	1.12	2.63	M	U		RAW	NaOH	1.05E+08	
AY102	OH	9/21/79	#1504	1.405	2.61	M	L		RAW	NaOH	1.04E+08	
AW106	OH-	8/7/88		-	43.9	g/L	P	Supernatant	Wastren	NaOH	1.03E+08	
AW106	OH	8/7/88	T-1621	1.241	2.58	moles/l	P	Supernate	Braun	NaOH	1.03E+08	
AY102	OH	9/21/79	#1502	1.48	2.56	M	L		RAW	NaOH	1.02E+08	
SY101	OH	5/30/86	R-6395	1.17	2.53	moles/l	P	Supernate	Braun	NaOH	1.01E+08	
SY101	OH	5/30/86	R-6395	1.29	2.53	moles/l	P	Supernate	Braun	NaOH	1.01E+08	
SY101	OH	5/30/86	R-6395	1.17	2.53	M	P	supernatant	RAW	NaOH	1.01E+08	
SY102	OH	5/17/77		1.456	2.52	M	L		RAW	NaOH	1.01E+08	
AN105	OH	5/10/84	(R-9839)	1.390	2.43	Moles/Liter	P		RAW	NaOH	9.72E+07	
AY102	OH	9/21/79	1508A	1.347	2.43	M	L		RAW	NaOH	9.72E+07	
SY101	OH-	5/1/91			41.3	g/L	L	Liquid	Wastren	NaOH	9.72E+07	
SY101	OH-	5/1/91			41.2	g/L	L	Liquid	Wastren	NaOH	9.69E+07	
AW103	OH	8/7/85	3936	1.39	2.39	M	F	Filtrate	RAW	NaOH	9.56E+07	
AW103	OH	8/7/85			2.39	mol/l	P	Supernate	RAW	NaOH	9.56E+07	
AY102	OH	9/21/79	1508C	1.399	2.39	M	L		RAW	NaOH	9.56E+07	
AY102	OH	9/21/79	#1503	1.404	2.39	M	L		RAW	NaOH	9.56E+07	
SY103	OH	1/17/86			2.39	M	L		RAW	NaOH	9.56E+07	
AW103	OH	1/1/85	3936	1.39	2.39	moles/l	F	Filtrate	Braun	NaOH	9.56E+07	
SY103	OH-	6/1/85			40.6	g/L	U	Bottom	Wastren	NaOH	9.55E+07	
SY102	OH	10/6/80	5098	1.47	2.37	M	P		RAW	NaOH	9.48E+07	
AN105	OH	5/10/84	(R-9840)		2.33	Moles/Liter	P		RAW	NaOH	9.32E+07	
AN101	OH-	7/4/88			39.5	g/L	P	Supernate	Wastren	NaOH	9.29E+07	
AN101	OH	7/4/88	T-672	1.2563	2.32	M	L		RAW	NaOH	9.28E+07	
AY102	OH	9/21/79	#1501	1.4	2.32	M	L		RAW	NaOH	9.28E+07	
SY103	OH	10/29/85	5257	1.5	2.32	M	F		RAW	NaOH	9.28E+07	
AW103	OH	8/7/85	3937	1.33	2.3	M	F	Filtrate	RAW	NaOH	9.20E+07	
AW103	OH	1/1/85	3937	1.33	2.3	moles/l	F	Filtrate	Braun	NaOH	9.20E+07	
AW102	OH	3/10/86	R-8586	1.22	2.24	M	L	No Solids	RAW	NaOH	8.96E+07	
AN105	OH	11/9/84		1.434	2.225	M	U		RAW	NaOH	8.90E+07	
AW101	OH	6/30/86		1.54	5.58	Wt%	F	FILTRATE	RAW	NaOH	8.59E+07	
AW102	OH	3/4/85	R-4149	1.4	2.13	M	L		RAW	NaOH	8.52E+07	
AW103	OH	11/30/84	2838		2.11	M	P	Supernatant	RAW	NaOH	8.44E+07	
SY102	OH	12/27/79		1.372	2.11	M	L		RAW	NaOH	8.44E+07	
AW103	OH	8/1/84	2838		2.11	moles/l	P	Supernate	Braun	NaOH	8.44E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW101	OH	7/6/86		1.53	5.25	Wt%	F	FILTRATE	RAW	NaOH	8.03E+07	
AW101	OH	7/2/86		1.5	5.35	Wt%	F	FILTRATE	RAW	NaOH	8.03E+07	
AP103	OH-	2/8/88	R-7369		1.95	M	P	No solids	RAW	NaOH	7.80E+07	
AP103	OH-	4/6/88	R-8090		1.89	M	L	No solids	RAW	NaOH	7.56E+07	
SY102	NaOH	11/20/80		1.442	1.8	M	F		RAW	NaOH	7.20E+07	
AW102	OH	1/28/83	R5001	1.41	1.79	M	F	Filtrate	RAW	NaOH	7.16E+07	
AW101	OH	6/26/86		1.49	4.78	Wt%	F	FILTRATE	RAW	NaOH	7.12E+07	
AY101	OH	6/5/78	7955	1.39	1.74	M	P	liquid phase	RAW	NaOH	6.96E+07	
AW106	OH	8/13/85		1.2	1.74	M	L		RAW	NaOH	6.96E+07	
AW101	OH	6/23/86	T-621	1.44	4.61	Wt%	U	Evap feed	RAW	NaOH	6.64E+07	
SY103	OH	12/30/88		1.2	0.00136	m/g	P		RAW	NaOH	6.53E+07	
AW101	OH	12/30/81	T-1048	1.324	1.56	M	L	Yellow, no solid	RAW	NaOH	6.24E+07	
AW101	OH	12/30/81	T-1049	1.329	1.56	M	L	Yellow, no solid	RAW	NaOH	6.24E+07	
AW102	OH	3/23/84	84-3	4.04	1.485	M	F	Filtrate	RAW	NaOH	5.94E+07	
AW102	NaOH	10/11/82	3256	2.264	1.48	M	F	Filtrate	RAW	NaOH	5.92E+07	
AW102	NaOH	11/4/82		1.264	1.48	M	F	Filtrate	RAW	NaOH	5.92E+07	
SY102	OH	11/1/84	R-3317A	1.44	1.46	moles/l	P	Supernate	Braun	NaOH	5.84E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	22100	PPM	L	PRIMARY RESULT	TCD	NaOH	5.69E+07	
AW103	OH	8/7/85	4013	1.13	1.37	M	F	Filtrate	RAW	NaOH	5.48E+07	
AW103	OH	1/1/85	4013	1.13	1.37	moles/l	F	Filtrate	Braun	NaOH	5.48E+07	
SY102	OH	11/1/84	R-3318A	1.42	1.37	moles/l	P	Supernate	Braun	NaOH	5.48E+07	
AW103	OH	8/7/85	3936		1.36	M	L	Water Wash	RAW	NaOH	5.44E+07	
AN106	OH	2/19/87	R-2456	1.223	1.353	moles/l	P	Supernate	Braun	NaOH	5.41E+07	
AW103	OH	3/20/83	RAT-AW103-4B	1.281	1.31	moles/l	F	Filtrate	Braun	NaOH	5.24E+07	
AW101	OH	7/2/86	T-882	1.32	3.87	Wt%	U	Evap feed	RAW	NaOH	5.11E+07	
AW102	OH-	4/20/88			21.6	g/L	P	Supernatant	Wastren	NaOH	5.08E+07	
SY103	OH-	6/1/85			21.6	g/L	U	Middle	Wastren	NaOH	5.08E+07	
AW102	OH	8/4/88	T1521A	1.16	1.27	M	P	Supernatant	RAW	NaOH	5.08E+07	
SY103	OH	1/17/86			1.27	M	L		RAW	NaOH	5.08E+07	
AW102	OH	4/20/88	T-1521	1.16	1.27	moles/l	P	Supernate	Braun	NaOH	5.08E+07	
SY101	OH	5/30/86	R-6396	1.3	1.25	M	P	supernatant	RAW	NaOH	5.00E+07	
AW102	OH	1/28/83	R5001	1.36	1.25	M	O		RAW	NaOH	5.00E+07	
AW103	OH	3/20/83		1.265	1.25	mol/l	L		RAW	NaOH	5.00E+07	
AW101	OH-	2/15/84	R9408	1.33	1.2	M	L		RAW	NaOH	4.80E+07	
AW101	OH-	2/15/84	R9414	1.37	1.2	M	L		RAW	NaOH	4.80E+07	
AW102	NaOH	4/1/83	4289	1.18	1.19	M	L	Clear	RAW	NaOH	4.76E+07	
SY103	OH	10/29/85	R-5256	1.35	1.19	M	F		RAW	NaOH	4.76E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AW102	NaOH	4/1/83	4289	1.18	1.19	moles/l	P	Supernate	Braun	NaOH	4.76E+07	
AN106	OH-	7/21/87	R2090	1.320	1.170	M	U		RAW	NaOH	4.68E+07	
AN106	OH	2/19/87	R-2090	1.32	1.17	moles/l	P	Supernate	Braun	NaOH	4.68E+07	
AW105	OH	1/1/85	R-4037	0.974	1.15	moles/l	L	Liquor	Braun	NaOH	4.60E+07	
AW101	OH	6/23/86		1.37	3.33	Wt%	F	filtrate	RAW	NaOH	4.56E+07	
AN106	OH	2/19/87	R-2089	1.344	1.14	moles/l	P	Supernate	Braun	NaOH	4.56E+07	
AW103	OH	8/1/84	2750		1.14	moles/l	P	Supernate	Braun	NaOH	4.56E+07	
AN106	OH	7/21/87	R-2089	1.344	1.14	M	P		RAW	NaOH	4.56E+07	
AW103	OH-	11/30/84	2750		1.14	M	P	Supernatant	RAW	NaOH	4.56E+07	
AZ101	OH	4/8/86			1.1	M	P		RAW	NaOH	4.40E+07	
AZ102	OH	8/27/81	RAT-AZ102-4B	1.39	1.1	moles/l	P	Supernate	Braun	NaOH	4.40E+07	
AZ101	OH	1/10/86		1.17	1.09	M	P		RAW	NaOH	4.36E+07	
AZ101	OH	5/2/90	R-101283		1.09	M	P		RAW	NaOH	4.36E+07	
AZ101	OH	11/18/85	RAT-AZ101-1	1.17	1.09	moles/l	P	Supernate	Braun	NaOH	4.36E+07	
AW105	OH	11/6/85	T-3475	1.06	1.08	M	U	Unknown	RAW	NaOH	4.32E+07	
AW103	OH	8/7/85	3937		1.05	M	L	Water Wash	RAW	NaOH	4.20E+07	
AW101	OH	6/26/86	T-686	1.31	3.18	Wt%	U	Evap feed	RAW	NaOH	4.17E+07	
AZ102	OH	6/26/79	RAT-AZ102-4a	1.39	1.03	moles/l	P	Supernate	Braun	NaOH	4.12E+07	
SY102	OH	5/2/89		1.57	1.02	M	L		RAW	NaOH	4.08E+07	
SY103	OH	1/17/86			1.02	M	L		RAW	NaOH	4.08E+07	
SY103	OH-	6/1/85			17.3	g/L	U	Top	Wastren	NaOH	4.07E+07	
AZ102	OH	9/20/82	RAT-AZ102-4C	1.39	0.998	moles/l	P	Supernate	Braun	NaOH	3.99E+07	
AZ101	OH	5/2/90	R-280187		0.95	M	P		RAW	NaOH	3.80E+07	
AZ101	OH	8/7/86	R9964/R0247	1.2	0.95	moles/l	P	Supernate	Braun	NaOH	3.80E+07	
SY102	OH	11/1/84	R-3316A	1.41	0.947	moles/l	P	Supernate	Braun	NaOH	3.79E+07	
AZ101	OH	3/11/88			0.9	M	P		RAW	NaOH	3.60E+07	
AZ101	OH	3/11/88	T-3493		0.9	M	P		RAW	NaOH	3.60E+07	
AZ101	OH	5/2/90	R-110388		0.9	M	P		RAW	NaOH	3.60E+07	
AZ101	OH	10/1/87	RAT-AZ101-6A		0.9	moles/l	P	Supernate	Braun	NaOH	3.60E+07	
AW101	OH	7/6/86	T-959	1.23	2.9	Wt%	U	Evap feed	RAW	NaOH	3.57E+07	
AY101	OH	2/28/85	R-3642	1.12	0.881	M	P		RAW	NaOH	3.52E+07	
SY101	OH-	8/20/92			3.06	Wt%	L		RAW	NaOH	3.37E+07	
SY102	OH	12/27/89			0.83	M	P		RAW	NaOH	3.32E+07	
AZ102	OH	7/28/83	RAT-AZ102-4D	1.41	0.82	moles/l	P	Supernate	Braun	NaOH	3.28E+07	
SY101	OH-	8/20/92			2.82	Wt%	L		RAW	NaOH	3.10E+07	
AW105	OH	6/10/85	R-4036	0.974	0.773	M	L	Clear	RAW	NaOH	3.09E+07	
AW105	OH	1/1/85	R-4036	0.974	0.773	moles/l	L	Liquor	Braun	NaOH	3.09E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
SY102	NaOH	12/7/82		1.128	0.77	M	L		RAW	NaOH	3.08E+07	
SY102	OH	11/1/88		1.18	0.76	M	L	3 + Upper 4	RAW	NaOH	3.04E+07	
SY102	OH	1/4/89	R-4332	1.18	0.76	M	L		RAW	NaOH	3.04E+07	
AW101	OH	11/9/84	R-3185	1.024	0.745	M	L	ALIQUOTS	RAW	NaOH	2.98E+07	
AW101	OH	11/9/84	R-3185	1.024	0.745	moles/l	P	Supernate	Braun	NaOH	2.98E+07	
SY101	OH-	8/20/92			2.68	Wt%	L		RAW	NaOH	2.95E+07	
SY101	OH-	8/20/92			2.61	Wt%	L		RAW	NaOH	2.87E+07	
AN106	OH-	2/1/90			12	g/L	P	Supernatant	Wastren	NaOH	2.82E+07	
SY103	OH	5/28/80	T-827	1.389	0.7	M	L		RAW	NaOH	2.80E+07	
AN101	OH-	12/19/90	R3820	1.15	6.99E-01	M	O		RAW	NaOH	2.80E+07	
AZ102	OH	2/4/85	R-3699	1.11	0.692	moles/l	P	Supernate	Braun	NaOH	2.77E+07	
SY103	OH	7/7/79	9654	1.336	0.692	M	L		RAW	NaOH	2.77E+07	
AW101	OH-	11/20/84	R-2644		0.691	Mole/L	P	Supernate	RAW	NaOH	2.76E+07	
AZ101	OH	9/13/85	RAT-AZ101-3A	1.17	0.688	moles/l	P	Supernate	Braun	NaOH	2.75E+07	
AZ101	OH	9/13/85		1.17	0.688	M	P		RAW	NaOH	2.75E+07	
AZ101	OH	5/2/90	R-130985		0.688	M	P		RAW	NaOH	2.75E+07	
AY101	NaOH	8/30/78	1353	1.39	0.68	M	P		RAW	NaOH	2.72E+07	
SY103	OH	5/28/80	T-828	1.374	0.68	M	L		RAW	NaOH	2.72E+07	
SY103	OH	7/7/79	9653	1.376	0.675	M	L		RAW	NaOH	2.70E+07	
AW102	OH	4/20/88	T8435	1.0371	0.669	M	O	Slightly cloudy	RAW	NaOH	2.68E+07	
AW101	OH-	11/20/84	R-2645		0.669	Mole/L	P	Supernate LIQUOR	RAW	NaOH	2.68E+07	
AW102	OH	4/20/88	T-8435	1.04	0.669	moles/l	P	Supernate	Braun	NaOH	2.68E+07	
AZ102	OH	2/4/85	R-3700	1.11	0.668	moles/l	P	Supernate	Braun	NaOH	2.67E+07	
AN102	OH	2/28/85	R-3640	1.39	6.48E-01	M	P		RAW	NaOH	2.59E+07	
AW105	OH	9/20/82		1.356	0.647	M	L	No Solids	RAW	NaOH	2.59E+07	
AN107	OH-	6/29/90	R5887		0.646	M	P	Rest 30 days	RAW	NaOH	2.58E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	10000	PPM	L	PRIMARY RESULT	TCD	NaOH	2.57E+07	
AW103	OH	4/9/88	T-8200	1.04	0.635	mol/l	L	No solids	RAW	NaOH	2.54E+07	
AW103	OH	4/10/88			0.635	M	L	No solids	RAW	NaOH	2.54E+07	
AW103	OH	4/9/88	T-8200	1.04	0.635	moles/l	P	Supernate	Braun	NaOH	2.54E+07	
AW102	NaOH	12/20/82	83-3	1.25	0.633	M	O	Trace of Solids	RAW	NaOH	2.53E+07	
SY103	OH	6/7/79	9652	1.387	0.63	M	L		RAW	NaOH	2.52E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	9780	PPM	L	PRIMARY RESULT	TCD	NaOH	2.52E+07	
AW101	OH-	8/18/85	T9368	1.0392	0.6177	M	P	Supernate	RAW	NaOH	2.47E+07	
AW101	OH-	8/21/85	T-9368	1.0392	0.6177	M	O	two phases	RAW	NaOH	2.47E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	9590	PPM	L	DUPLICATE RESULT	TCD	NaOH	2.47E+07	
AN101	OH	3/27/85	R-3963	1.02	0.615	Moles/Liter	P		RAW	NaOH	2.46E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AN101	OH	3/27/85	R-3963	1.02	0.615	moles/l	P	Supernate	Braun	NaOH	2.46E+07	
AW105	OH	5/10/84	R9838		0.611	mol/l	L	4' below	RAW	NaOH	2.44E+07	
AW105	OH	5/10/84	R9837	1.02	0.611	mol/l	L	Trace of solids	RAW	NaOH	2.44E+07	
AW101	OH-	11/6/85	T-2601	1.01	0.607	M	P	6' BELOW	RAW	NaOH	2.43E+07	
AW101	OH-	4/21/85	T5351	1.0411	0.601	M	P	Supernate	RAW	NaOH	2.40E+07	
SY102	NaOH	4/15/81		1.131	0.596	M	L		RAW	NaOH	2.38E+07	
AW101	OH-	4/21/85	T5350	1.0279	0.585	M	L	NO SOLIDS	RAW	NaOH	2.34E+07	
SY102	OH-	7/1/88		1.128	0.583	M	P		RAW	NaOH	2.33E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	9030	PPM	L	DUPLICATE RESULT	TCD	NaOH	2.32E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	9030	PPM	L	PRIMARY RESULT	TCD	NaOH	2.32E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	9010	PPM	L	PRIMARY RESULT	TCD	NaOH	2.32E+07	
AZ101	NaOH	8/27/81		1.143	0.578	M	F		RAW	NaOH	2.31E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	8940	PPM	L	PRIMARY RESULT	TCD	NaOH	2.30E+07	
SY102	OH	5/1/84			0.573	M	P		RAW	NaOH	2.29E+07	
AN107	OH-	6/29/90	R5887		0.571	M	P	Rest 24 hrs	RAW	NaOH	2.28E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	8810	PPM	L	PRIMARY RESULT	TCD	NaOH	2.27E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	8690	PPM	L	PRIMARY RESULT	TCD	NaOH	2.24E+07	
AY102	OH-	12/7/83	T-8917	1.086	0.54	M	P		RAW	NaOH	2.16E+07	
AY101	NaOH	4/15/81		1.261	0.53	M	F		RAW	NaOH	2.12E+07	
AY102	OH-	12/7/83	T-8916	1.085	0.53	M	L		RAW	NaOH	2.12E+07	
AW103	OH	6/15/83			0.528	M	P	Supernatant	RAW	NaOH	2.11E+07	
AW103	OH	6/1/84	202107A		0.528	moles/l	P	Supernate	Braun	NaOH	2.11E+07	
AW103	OH	6/15/85	RAT-AW103-2B		0.528	moles/l	P	Supernate	Braun	NaOH	2.11E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	8190	PPM	L	PRIMARY RESULT	TCD	NaOH	2.11E+07	
AW101	OH-	11/6/85	T-2641	1.01	0.505	M	P	2' BELOW	RAW	NaOH	2.02E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	7700	PPM	L	DUPLICATE RESULT	TCD	NaOH	1.98E+07	
AY101	OH	9/20/82		1.241	0.494	M	F		RAW	NaOH	1.98E+07	
AY101	OH	10/4/82			0.494	M	L		RAW	NaOH	1.98E+07	
SY102	OH	8/2/88	R-3038	1.06	0.487	M	P		RAW	NaOH	1.95E+07	
SY102	OH	10/5/84	R-3038	1.06	0.487	moles/l	P	Supernate	Braun	NaOH	1.95E+07	
AN107	OH-	6/29/90	R5887		0.476	M	P	Parr Bomb	RAW	NaOH	1.90E+07	
AY101	OH-	7/20/88			8.06	g/L	P	Supernatant	Wastren	NaOH	1.90E+07	
AY101	OH	7/20/88	8371	1.09	0.474	M	P		RAW	NaOH	1.90E+07	
SY102	OH	12/31/84	R-3326		0.472	M	P		RAW	NaOH	1.89E+07	
AW104	OH	9/20/82		1.259	0.464	M	L	Liquor	RAW	NaOH	1.86E+07	
SY102	NaOH	4/24/81		1.148	0.462	M	L		RAW	NaOH	1.85E+07	
SY101	OH	6/11/80		1.1057	0.435	M	U		RAW	NaOH	1.74E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY101	OH	6/11/80	T-1227	1.1057	0.435	moles/l	P	Supernate	Braun	NaOH	1.74E+07	
AW103	OH	3/26/86			0.417	M	P	Supernatant	RAW	NaOH	1.67E+07	
SY102	NaOH	11/21/82		1.128	0.41	M	L		RAW	NaOH	1.64E+07	
SY102	OH	6/1/84		1.17	0.41	M	P		RAW	NaOH	1.64E+07	
SY102	OH	8/2/88	R-3037	1.03	0.406	M	P		RAW	NaOH	1.62E+07	
SY102	OH	10/5/84	R-3037	1.03	0.406	moles/l	P	Supernate	Braun	NaOH	1.62E+07	
SY102	OH	11/1/88		1.02	0.401	M	L	1 + 2 Liquid	RAW	NaOH	1.60E+07	
SY102	OH	1/4/89	R-4331	1.02	0.401	M	L		RAW	NaOH	1.60E+07	
AW103	OH	8/7/85	4013		0.4	M	L	Water Wash	RAW	NaOH	1.60E+07	
AW105	OH	6/24/88	T-7966	1.0081	0.388	mol/l	P		RAW	NaOH	1.55E+07	
AW105	OH	4/5/88	T-7966	1.008	0.388	moles/l	P	Supernate	Braun	NaOH	1.55E+07	
AW101	OH	6/30/86	T-812	1.13	1.34	Wt%	U	Evap feed	RAW	NaOH	1.51E+07	
AY101	OH	3/14/85		1.12	14977	mg/L	L		RAW	NaOH	1.50E+07	
AZ102	OH	5/2/90	R-60386		0.35	M	P		RAW	NaOH	1.40E+07	
AZ102	OH	11/5/85	RAT-AZ102-2A	1.09	0.35	moles/l	P	Supernate	Braun	NaOH	1.40E+07	
aw106	Hydroxide	12/1/93	B08VS6	1.094	5410	PPM	L	PRIMARY RESULT	TCD	NaOH	1.39E+07	
AN106	OH	2/19/87	R-2088	1.142	0.346	moles/l	P	Supernate	Braun	NaOH	1.38E+07	
AN106	OH	7/21/87	R-2088	1.142	0.346	M	P		RAW	NaOH	1.38E+07	
AW103	OH	12/11/88	R-4346A		0.34	moles/l	P	Supernate	Braun	NaOH	1.36E+07	
AW101	OH	11/9/84	R-3215	1.04	0.327	M	L	ALIQUOTS	RAW	NaOH	1.31E+07	
AY102	OH	11/9/84	R-3215	1.04	0.327	M	U		RAW	NaOH	1.31E+07	
AY102	OH-	11/9/84	R3215		0.327	M	U		RAW	NaOH	1.31E+07	
AY102	OH	11/9/84	R-3215	1.04	0.327	moles/l	P	Supernate	Braun	NaOH	1.31E+07	
AW105	OH	7/8/88	T-805	1.013	0.326	M	L		RAW	NaOH	1.30E+07	
AW105	OH	7/8/88	T-805	1.013	0.326	mol/l	P		RAW	NaOH	1.30E+07	
AW105	OH	8/17/88	T-805	1.01	0.326	moles/l	L	Liquor	Braun	NaOH	1.30E+07	
AW105	OH-	8/17/88			5.54	g/L	P	Supernatant	Wastren	NaOH	1.30E+07	
AW105	OH	5/1/86		1.079	12	mg/g	P		RAW	NaOH	1.29E+07	
AW103	OH	10/4/88	R-3760		0.31	M	P	Supernate	RAW	NaOH	1.24E+07	
AY101	OH	2/28/85	R-3641	1.11	0.301	M	P		RAW	NaOH	1.20E+07	
AY101	OH	2/28/85	R-3641	1.11	0.301	moles/l	P	Supernate	Braun	NaOH	1.20E+07	
AZ101	NaOH	4/26/78		1.133	0.278	M	L		RAW	NaOH	1.11E+07	
AW101	OH	11/9/84	R-3214	1.03	0.265	M	L	ALIQUOTS	RAW	NaOH	1.06E+07	
AY102	OH	11/9/84	R-3214	1.03	0.265	M	U		RAW	NaOH	1.06E+07	
AY102	OH-	11/9/84	R3214		0.265	M	U		RAW	NaOH	1.06E+07	
AY102	OH	11/9/84	R-3214	1.03	0.265	moles/l	P	Supernate	Braun	NaOH	1.06E+07	
AN107	OH-	10/10/80	5440		0.243	M	L	Trace of Solids	RAW	NaOH	9.72E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AY102	OH	6/18/82		1.056	0.23	M	P		RAW	NaOH	9.20E+06	
AN107	OH-	10/10/80	5439		0.229	M	U		RAW	NaOH	9.16E+06	
SY102	OH	3/12/93	R3353	1.064	8520	ug/mL	O	Bottom	RAW	NaOH	8.52E+06	
AZ101	OH	9/10/84			0.212	M	P	1st aliquote	RAW	NaOH	8.48E+06	
AZ101	OH	5/2/90	R-100984		0.212	M	P		RAW	NaOH	8.48E+06	
AZ101	OH	6/1/84	RAT-AZ101-2A		0.212	moles/l	P	Supernate	Braun	NaOH	8.48E+06	
SY102	OH	6/1/88			0.21	M	P		RAW	NaOH	8.40E+06	
SY102	OH	6/1/88	RAT-SY102-1		0.21	moles/l	P	Supernate	Braun	NaOH	8.40E+06	
AW101	OH	3/30/86	T-7697	0.997	0.208	M	L		RAW	NaOH	8.32E+06	
AZ101	OH	6/1/84	RAT-AZ101-2B		0.204	moles/l	P	Supernate	Braun	NaOH	8.16E+06	
AZ101	OH	9/10/84			0.204	M	P	2nd aliquote	RAW	NaOH	8.16E+06	
AW101	OH	3/30/86	T-7698	0.993	0.203	M	L		RAW	NaOH	8.12E+06	
AY101	OH	7/20/88	R-8371	1.09	8.06	gm/l	P	Supernate	Braun	NaOH	8.06E+06	
AN102	OH-	2/28/85			3.42	g/L	P	Supernate	Wastren	NaOH	8.05E+06	
AN102	OH	2/28/85	R-3639	1.39	0.201	M	P		RAW	NaOH	8.04E+06	
AN102	OH	2/28/85	R-3639	1.39	0.201	moles/l	P	Supernate	Braun	NaOH	8.04E+06	
AZ102	OH	5/2/90	R-880311		0.2	M	P		RAW	NaOH	8.00E+06	
AZ102	OH	10/1/87	RAT-AZ102-3		0.2	moles/l	P	Supernate	Braun	NaOH	8.00E+06	
AP103	OH	2/8/88	RAT-AP103-2		0.195	moles/l	P	Supernate	Braun	NaOH	7.80E+06	
AZ101	OH	12/28/83			0.19	M	L		RAW	NaOH	7.60E+06	
AZ101	OH	5/2/90	R-281283		0.19	M	P		RAW	NaOH	7.60E+06	
AP103	OH	4/6/88	RAT-AP103-1		0.189	moles/l	P	Supernate	Braun	NaOH	7.56E+06	
AP103	OH-	4/6/88			3.21	g/L	P	Supernatant	Wastren	NaOH	7.55E+06	
aw102	Hydroxide	12/1/93	B0BC12	1.03	3090	PPM	L	DUPLICATE RESULT	TCD	NaOH	7.49E+06	
AP103	OH	2/8/88	RAT-AP103-4		0.187	moles/l	P	Supernate	Braun	NaOH	7.48E+06	
aw102	Hydroxide	12/1/93	B0BC12	1.03	3010	PPM	L	PRIMARY RESULT	TCD	NaOH	7.29E+06	
aw102	Hydroxide	12/1/93	B0BC12	1.03	2990	PPM	L	PRIMARY RESULT	TCD	NaOH	7.25E+06	
AZ102	OH	5/2/90	R-81287		0.18	M	P		RAW	NaOH	7.20E+06	
aw102	Hydroxide	12/1/93	B0BC12	1.03	2620	PPM	L	PRIMARY RESULT	TCD	NaOH	6.35E+06	
AW103	OH	12/11/88	R-4347		0.15	M	P	Supernatant	RAW	NaOH	6.00E+06	
AW103	OH	12/11/88	R-4347		0.15	moles/l	P	Supernate	Braun	NaOH	6.00E+06	
AW103	OH	12/11/88	R-4348		0.14	M	P	Supernatant	RAW	NaOH	5.60E+06	
AW103	OH	5/5/89	R-4345		0.14	mol/l	P	Supernate	RAW	NaOH	5.60E+06	
AW103	OH	12/11/88	R-4345		0.14	moles/l	P	Supernate	Braun	NaOH	5.60E+06	
AY101	OH	6/23/87		1.09	0.134	M	P		RAW	NaOH	5.36E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AY101	OH	3/1/87	RAT-AY101-1	1.09	0.134	moles/l	P	Supernate	Braun	NaOH	5.36E + 06	
AP103	OH-	1/30/88	R-7370		1.32E-01	M	P		RAW	NaOH	5.28E + 06	
AP103	OH	1/30/88	RAT-AP103-3	0.9781	0.132	moles/l	P	Supernate	Braun	NaOH	5.28E + 06	
AW102	OH	8/18/83	R6875	1.03	0.106	M	L	Clear yellow	RAW	NaOH	4.24E + 06	
AP102	OH-	2/11/93		0.956764	0.105546	M	U		RAW	NaOH	4.22E + 06	
AN106	OH-	11/28/83	8500		0.102	M	L	No visible Solids	RAW	NaOH	4.08E + 06	
AN106	OH	11/28/83	8500		0.102	moles/l	P	Supernate	Braun	NaOH	4.08E + 06	
AN106	OH-	11/28/83	8501		0.097	M	L	No visible Solids	RAW	NaOH	3.88E + 06	
AN106	OH	11/28/83	8501		0.097	moles/l	P	Supernate	Braun	NaOH	3.88E + 06	
AP102	OH-	2/11/93		0.956764	0.09055	M	U		RAW	NaOH	3.62E + 06	
SY101	OH	7/14/80	T-1229-DUP2	1.033	0.0875	moles/l	P	Supernate	Braun	NaOH	3.50E + 06	
AY101	OH	4/3/84	R-9280	1.085	0.0701	M	L		RAW	NaOH	2.80E + 06	
AY101	OH	4/3/84	R-9281	1.099	0.0657	M	L		RAW	NaOH	2.63E + 06	
AN107	OH-	12/4/86			0.85	g/L	P	Supernatant	Wastren	NaOH	2.00E + 06	
AN106	OH	9/16/87	R-2087	1.087	0.05	M	P		RAW	NaOH	2.00E + 06	
AN106	OH	2/19/87	R-2087	1.087	0.05	moles/l	P	Supernate	Braun	NaOH	2.00E + 06	
AN101	OH	7/4/88	T-671	0.9656	0.0456	M	L		RAW	NaOH	1.82E + 06	
AW102	OH	9/9/83	R7811	1.015	0.045	M	O	4' below surface	RAW	NaOH	1.80E + 06	
AW102	OH	11/28/83	R8556	1.124	0.041	M	O	6' below surface	RAW	NaOH	1.64E + 06	
SY102	OH	3/12/93	R3354	1.002	1540	ug/mL	L	no solids	RAW	NaOH	1.54E + 06	
AW102	OH	11/28/83	R8555	1.0219	0.034	M	O	Surface	RAW	NaOH	1.36E + 06	
AW102	OH	9/9/83	R7812	1.021	0.0293	M	O	2' above bottom	RAW	NaOH	1.17E + 06	
Limit: 1.	OH	3/12/93	R3355	1	855	ug/mL	L	no solids	RAW	NaOH	8.55E + 05	
AN101	OH	3/27/85	T-2833	1.00	0.018	Moles/Liter	P		RAW	NaOH	7.20E + 05	
AZ102	OH	1/30/86	T-5387	1.008	0.00714	moles/l	P	Supernate	Braun	NaOH	2.86E + 05	
AP102	OH-	12/31/88		1.01	0.005129	M	U		RAW	NaOH	2.05E + 05	
SY103	OH	12/30/88		1.54	0.00047	M	L		RAW	NaOH	1.86E + 04	
AW-102	OH				11.4	g-moles	L		TRAC	NaOH	4.01E + 03	
SY-103	OH				206	g-moles	L		TRAC	NaOH	4.00E + 03	
AW-106	OH				204	g-moles	L		TRAC	NaOH	4.00E + 03	
AZ-102	OH				349	g-moles	L		TRAC	NaOH	4.00E + 03	
AW-101	OH				3.41	g-moles	L		TRAC	NaOH	4.00E + 03	
SY-101	OH				428	g-moles	L		TRAC	NaOH	4.00E + 03	
AZ-101	OH				301	g-moles	L		TRAC	NaOH	4.00E + 03	
AW-103	OH				363	g-moles	L		TRAC	NaOH	3.99E + 03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Liquids [Sketch ES-VAL-CC77]
 ASA Value: 2.11E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
AY-102	OH				85.9	g-moles	L		TRAC	NaOH	3.99E+03	
SY-102	OH				213	g-moles	L		TRAC	NaOH	3.99E+03	
AW-105	OH				355	g-moles	L		TRAC	NaOH	3.99E+03	
AY-101	OH				308	g-moles	L		TRAC	NaOH	3.99E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Solids [Sketch ES-VAL-CC78]
 ASA Value: 2.30E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AN103	OH	1/13/88			0.55	mol/g	R	Core 14	RAW	NaOH	3.52E+10	6
AN103	OH	1/13/88			0.53	mol/g	S	Core 14	RAW	NaOH	3.39E+10	6
AN103	OH	1/13/88			0.34	mol/g	R	Core 13	RAW	NaOH	2.18E+10	6
AN103	OH	1/13/88			0.31	mol/g	S	Core 13	RAW	NaOH	1.98E+10	6
AY-101	OH				211692	g-moles	S		TRAC	NaOH	2.23E+09	4
SY101	OH	6/19/78			7.83	M	R		RAW	NaOH	3.13E+08	36
ASA Value: 2.30E+08 ug/L												
AN103	OH-	2/1/90			97.6	g/L	R	Slurry	Wastren	NaOH	2.30E+08	*
AN103	OH	9/25/87	TKO92587		5.6	mole/l	Y	slurry	RAW	NaOH	2.24E+08	
AW101	OH	6/28/90	R-4800	1.555	5.25	moles/l	G	Sludge/Composite	Braun	NaOH	2.10E+08	
AW101	OH	6/28/90	R-4793	1.535	5.16	moles/l	G	Sludge/Composite	Braun	NaOH	2.06E+08	
AW101	OH	6/28/90	R-4802	1.55	5.16	moles/l	G	Sludge/Composite	Braun	NaOH	2.06E+08	
AW101	OH	6/28/90	R-4799	1.555	5.13	moles/l	G	Sludge/Composite	Braun	NaOH	2.05E+08	
AW101	OH	6/28/90	R-4798	1.56	5.11	moles/l	G	Sludge/Composite	Braun	NaOH	2.04E+08	
AW101	OH	6/28/90	R-4792	1.53	5.1	moles/l	G	Sludge/Composite	Braun	NaOH	2.04E+08	
AW101	OH	6/28/90	R-4801	1.555	5.09	moles/l	G	Sludge/Composite	Braun	NaOH	2.04E+08	
AW101	OH	6/28/90	R-4797	1.56	5.08	moles/l	G	Sludge/Composite	Braun	NaOH	2.03E+08	
AW101	OH-	6/28/90			86.3	g/L	R	Slurry	Wastren	NaOH	2.03E+08	
AW101	OH	6/28/90	R-4796	1.63	5.05	moles/l	G	Sludge/Composite	Braun	NaOH	2.02E+08	
AW101	OH	6/28/90	R-4794	1.57	5.05	moles/l	G	Sludge/Composite	Braun	NaOH	2.02E+08	
AW101	OH	6/28/90	R-4795	1.54	4.9	moles/l	G	Sludge/Composite	Braun	NaOH	1.96E+08	
AW101	OH	6/28/90	R-4803	1.575	4.82	moles/l	G	Sludge/Composite	Braun	NaOH	1.93E+08	
AW101	OH	6/28/90	RAT-AW101-1	1.54	4.73	moles/l	I	Composite	Braun	NaOH	1.89E+08	
AW102	OH	2/24/86	R4149	1.50	4.50	M	R		RAW	NaOH	1.80E+08	
AN103	OH	1/25/85	(R-3761)	1.49	4.45	M	R		RAW	NaOH	1.78E+08	
AN103	OH	3/28/86	R-8190	1.48	4.32	M	G		RAW	NaOH	1.73E+08	
AW104	OH	4/29/86	R-8586	1.48	4.18	M	R		RAW	NaOH	1.67E+08	
AW102	OH	2/4/86	T-5578	1.47	4.11	moles/l	Y	Slurry	Braun	NaOH	1.64E+08	
AW102	OH	2/4/86	T-5579	1.49	4.05	moles/l	Y	Slurry	Braun	NaOH	1.62E+08	
AN103	OH-	7/2/84	R9990	1.473	4.00	M	R		RAW	NaOH	1.60E+08	
SY101	NaOH	4/28/77		1.389	3.92	M	R		RAW	NaOH	1.57E+08	
AN103	OH	1/25/85	R-3644	1.36	3.88	moles/l	G	Sludge	Braun	NaOH	1.55E+08	
AN103	OH	1/25/85	R-3644	1.36	3.88	M	R		RAW	NaOH	1.55E+08	
AN103	OH	12/4/87	R-3182	1.547	3.56	moles/l	Y		RAW	NaOH	1.42E+08	
AN103	OH-	1/18/85	R3182	1.547	3.56	moles/L	Y		RAW	NaOH	1.42E+08	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Solids [Sketch ES-VAL-CC78]
 ASA Value: 2.30E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	ID
					Value	Unit						
SY101	NaOH	6/7/77		1.558	3.44	M	R		RAW	NaOH	1.38E+08	
AW102	NaOH	4/1/83	4289	1.494	3.34	M	R	Slurry	RAW	NaOH	1.34E+08	
AW102	OH	1/18/85	R-3180	1.36	3.28	M	S	50% Solids	RAW	NaOH	1.31E+08	
SY103	OH	5/10/88	SEG11	2.39	3.28	M	G		RAW	NaOH	1.31E+08	
SY102	NaOH	12/27/79			3.21	M	R		RAW	NaOH	1.28E+08	
AN103	OH	1/25/85	R-3645	1.35	3.2	moles/l	G	Sludge	Braun	NaOH	1.28E+08	
AW101	OH	1/13/86	R-7695	1.29	3.15	M	R	Feed slurry set	RAW	NaOH	1.26E+08	
AW104	OH	11/9/84	R-3206	1.41	3.1	moles/l	G	Sludge	Braun	NaOH	1.24E+08	
AW104	OH-	11/9/84			52.7	g/L	R	Slurry	Wastren	NaOH	1.24E+08	
SY102	NaOH	5/17/77		1.532	3.05	M	R		RAW	NaOH	1.22E+08	
SY101	OH	7/14/80	T-1228	1.223	3.02	M	S		RAW	NaOH	1.21E+08	
AW106	OH	8/13/85		1.2	3	M	Y		RAW	NaOH	1.20E+08	
SY103	OH	5/10/88	SEG6	2.93	2.88	M	G		RAW	NaOH	1.15E+08	
SY102	NaOH	5/17/77		1.469	2.78	M	R		RAW	NaOH	1.11E+08	
SY101	OH	5/30/86	R-6395	1.17	2.66	moles/l	Y	Slurry	Braun	NaOH	1.06E+08	
SY101	OH	5/30/86	R-6395	1.29	2.66	moles/l	Y	Slurry	Braun	NaOH	1.06E+08	
SY101	OH	5/30/86	R-6395	1.29	2.66	M	R	slurry	RAW	NaOH	1.06E+08	
AW102	OH	1/18/85	R-3209	1.37	2.65	M	S	50% Solids	RAW	NaOH	1.06E+08	
AW103	OH	4/12/83	R-5467	1.42	2.64	moles/l	S	Solids	Braun	NaOH	1.06E+08	
AW106	OH	3/4/85	R-4151	1.12	2.63	M	R		RAW	NaOH	1.05E+08	
AN103	OH-	4/30/85	T8883	1.298	2.490	M	R		RAW	NaOH	9.96E+07	
AW102	OH	1/18/85	R-3181	1.359	2.48	M	S	50% Solids	RAW	NaOH	9.92E+07	
AN103	OH-	4/30/85	T8882	1.294	2.450	M	R		RAW	NaOH	9.80E+07	
SY103	OH	5/10/88	SEG3	2.51	2.42	M	G		RAW	NaOH	9.68E+07	
AW106	OH	4/29/86	R-8587	1.24	2.41	M	S		RAW	NaOH	9.64E+07	
SY103	OH	12/31/85			2.39	M	I		RAW	NaOH	9.56E+07	
SY103	OH	12/31/85			2.39	M	I		RAW	NaOH	9.56E+07	
SY101	OH-	May 91			40.5	g/L	I	Composite 3	Wastren	NaOH	9.53E+07	
SY101	OH	5/30/86	R-6394	1.69	2.33	moles/l	Y	Slurry	Braun	NaOH	9.32E+07	
SY101	OH	5/30/86	R-6394	1.69	2.33	M	R		RAW	NaOH	9.32E+07	
AW101	OH-	11/27/85	T-3048	1.18	2.33	M	R	Feed slurry set	RAW	NaOH	9.32E+07	
SY103	OH	7/2/85	R-5257	1.5	2.32	moles/l	S	Slurry/Solids	Braun	NaOH	9.28E+07	
SY101	OH-	5/1/91			39.2	g/L	I	Composite 4	Wastren	NaOH	9.22E+07	
AN105	OH	11/9/84	RAT-AN105-1	1.434	2.225	moles/l	G	Sludge	Braun	NaOH	8.90E+07	
AW101	OH	6/30/86	R-9895	1.57	5.4	Wt%	R	SLURRY	RAW	NaOH	8.48E+07	
AW101	OH	7/2/86	R-9896	1.53	5.5	Wt%	R	SLURRY	RAW	NaOH	8.42E+07	
AW102	OH	1/28/83	R5001	1.52	2.1	M	R	Slurry	RAW	NaOH	8.40E+07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Solids [Sketch ES-VAL-CC78]
 ASA Value: 2.30E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY103	OH	12/31/85			2.06	M	I		RAW	NaOH	8.24E+07	
AN106	OH	1/15/87	5001		.00E+0	M	I		RAW	NaOH	8.00E+07	
AW101	OH	7/6/86	R-9897	1.49	5.2	Wt%	R	SLURRY	RAW	NaOH	7.75E+07	
SY101	OH-	5/1/91			32	g/L	S	Solids	Wastren	NaOH	7.53E+07	
AY102	NaOH	4/15/81		1.385	1.88	M/L	R		RAW	NaOH	7.52E+07	
AW101	OH	1/13/86	R-7694	1.18	1.86	M	R	Feed slurry set	RAW	NaOH	7.44E+07	
AW101	OH	6/26/86	R-9894	1.5	4.83	Wt%	R	SLURRY	RAW	NaOH	7.25E+07	
SY102	OH	10/1/88	102-SY-4B	1.8	1	mmol/gm	G	Sludge	Braun	NaOH	7.20E+07	
SY103	NaOH	3/23/81		1.08	1.8	M	R		RAW	NaOH	7.20E+07	
SY102	OH	12/27/89			1.8	M	S		RAW	NaOH	7.20E+07	
SY102	OH-	10/1/88			30.6	g/L	G	Sludge	Wastren	NaOH	7.20E+07	
AW101	OH-	11/27/85	T-3049	1.27	1.76	M	R	Feed slurry set	RAW	NaOH	7.04E+07	
SY101	OH-	5/1/91			27.4	g/L	I	Composite	Wastren	NaOH	6.45E+07	
SY103	OH	12/31/85			1.55	M	I		RAW	NaOH	6.20E+07	
SY101	OH-	5/1/91			23.9	g/L	S	Solids	Wastren	NaOH	5.62E+07	
AN101	OH-	4/30/85	T8902	1.137	1.360	M	R		RAW	NaOH	5.44E+07	
AN101	OH-	4/30/85	T8903	1.132	1.320	M	R		RAW	NaOH	5.28E+07	
AW101	OH	6/23/86	R-9893	1.36	3.76	Wt%	R	SLURRY	RAW	NaOH	5.11E+07	
SY103	OH	12/31/85			1.27	M	I		RAW	NaOH	5.08E+07	
SY103	OH	12/31/85			1.27	M	I		RAW	NaOH	5.08E+07	
AW103	OH	3/20/83	RAT-AW103-3	1.265	1.25	moles/l	Y	Slurry	Braun	NaOH	5.00E+07	
SY101	OH-	10/6/92			3.08	Wt%	I		RAW	NaOH	4.93E+07	
SY103	OH	7/2/85	R-5256	1.35	1.19	moles/l	S	Slurry/Solids	Braun	NaOH	4.76E+07	
SY101	OH	5/30/86	R-6396	1.33	1.17	M	R	slurry	RAW	NaOH	4.68E+07	
SY101	OH-	10/6/92			2.82	Wt%	I		RAW	NaOH	4.51E+07	
SY101	OH-	10/6/92			2.82	Wt%	I		RAW	NaOH	4.51E+07	
SY101	OH	11/18/90			1.09	M	S		RAW	NaOH	4.36E+07	
AW101	OH	12/9/85	T-3475	1.06	1.08	M	R	Feed slurry set	RAW	NaOH	4.32E+07	
SY101	OH-	8/20/92			2.68	Wt%	S		RAW	NaOH	4.29E+07	
SY101	OH-	8/20/92			2.68	Wt%	S		RAW	NaOH	4.29E+07	
AW102	NaOH	10/11/82	3256	1.262	1.07	M	R	Slurry	RAW	NaOH	4.28E+07	
AW102	NaOH	11/4/82		1.262	1.07	M	R	Slurry	RAW	NaOH	4.28E+07	
AN103	OH	3/28/86	R-8190	1.48	1.05	moles/l	G	Sludge	Braun	NaOH	4.20E+07	
AY101	NaOH	4/15/81		1.261	1.04	M	R		RAW	NaOH	4.16E+07	
AW103	OH	3/20/83	RAT-AW103-4A	1.271	1.03	moles/l	Y	Slurry	Braun	NaOH	4.12E+07	
SY103	OH	6/24/85	R-5255	1.69	1.02	moles/l	S	Slurry/Solids	Braun	NaOH	4.08E+07	
SY103	OH	10/29/85	R-5255	1.69	1.02	M	R		RAW	NaOH	4.08E+07	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Sodium Hydroxide Double-Shell Tank Solids [Sketch ES-VAL-CC78]
ASA Value: 2.30E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
SY103	OH	12/31/85			1.02	M	I		RAW	NaOH	4.08E + 07	
SY101	OH-	10/6/92			2.52	Wt%	I		RAW	NaOH	4.03E + 07	
SY101	OH-	8/20/92			2.51	Wt%	S		RAW	NaOH	4.02E + 07	
SY101	OH-	8/20/92			2.51	Wt%	S		RAW	NaOH	4.02E + 07	
AZ101	OH	4/8/86			1	M	R		RAW	NaOH	4.00E + 07	
SY101	OH-	8/20/92			2.50	Wt%	S		RAW	NaOH	4.00E + 07	
SY101	OH-	8/20/92			2.50	Wt%	S		RAW	NaOH	4.00E + 07	
SY101	OH-	10/6/92			2.42	Wt%	I		RAW	NaOH	3.87E + 07	
SY101	OH-	8/20/92			2.29	Wt%	S		RAW	NaOH	3.66E + 07	
AY101	OH	2/28/85	R-3642	1.12	0.881	moles/l	S	Supernate/Solids	Braun	NaOH	3.52E + 07	
SY101	OH-	10/6/92			2.12	Wt%	S		RAW	NaOH	3.39E + 07	
SY101	OH-	8/20/92			2.09	Wt%	S		RAW	NaOH	3.34E + 07	
SY101	OH-	8/20/92			2.09	Wt%	S		RAW	NaOH	3.34E + 07	
SY101	OH-	8/20/92			2.06	Wt%	S		RAW	NaOH	3.30E + 07	
AZ102	NaOH	7/28/83	RAT-AZ102-6	1.41	0.82	moles/l	Y	Slurry	Braun	NaOH	3.28E + 07	
SY101	OH	11/18/90			0.82	M	S		RAW	NaOH	3.28E + 07	
SY101	OH-	10/6/92			1.98	Wt%	I		RAW	NaOH	3.17E + 07	
SY102	NaOH	11/21/82		1.128	0.77	M	Y		RAW	NaOH	3.08E + 07	
SY102	NaOH	11/21/82		1.128	2.7	Wt%	Y		RAW	NaOH	3.05E + 07	
AW105	OH	2/24/87	T-7937	1.17	0.757	moles/l	I	Composite	Braun	NaOH	3.03E + 07	
AW105	OH	2/24/87	7937	1.235	0.757	mol/l	G	Sludge	RAW	NaOH	3.03E + 07	
AW101	OH	11/9/84	R3185	1.024	0.745	M	I		RAW	NaOH	2.98E + 07	
AW103	OH	10/4/88	R-3761	1.38	0.705	M	G	Sludge	RAW	NaOH	2.82E + 07	
AW105	OH	2/24/87	7939	1.245	0.694	mol/l	G	Sludge	RAW	NaOH	2.78E + 07	
SY101	OH-	10/6/92			1.69	Wt%	I		RAW	NaOH	2.70E + 07	
AW105	OH	2/24/87	T-7942	1.41	0.663	moles/l	I	Composite	Braun	NaOH	2.65E + 07	
AW105	OH	2/24/87	7942	1.57	0.663	mol/l	G	Sludge	RAW	NaOH	2.65E + 07	
AW105	OH	2/24/87	RAT-AW105-1	1.3	0.632	moles/l	G	Sludge/Composite	Braun	NaOH	2.53E + 07	
SY101	OH-	10/6/92			1.58	Wt%	S		RAW	NaOH	2.53E + 07	
AW105	OH	2/24/87	T-7941	1.34	0.63	moles/l	I	Composite	Braun	NaOH	2.52E + 07	
AW105	OH	2/24/87	7941	1.4	0.63	mol/l	G	Sludge	RAW	NaOH	2.52E + 07	
AW105	OH-	2/24/87			10.7	g/L	G	Sludge	Wastren	NaOH	2.52E + 07	
AW105	OH	2/24/87	T-7940	1.43	0.504	moles/l	I	Composite	Braun	NaOH	2.02E + 07	
AW105	OH	2/24/87	7940	1.37	0.504	mol/l	G	Sludge	RAW	NaOH	2.02E + 07	
AW103	OH	10/4/88	R-3762	1.42	0.49	M	G	Sludge	RAW	NaOH	1.96E + 07	
AW103	OH-	11/30/84	2838		0.49	M	S	Water soluble Solid	RAW	NaOH	1.96E + 07	
AW106	OH	7/30/85	R-5899	1.55	1.14	Wt%	Y		RAW	NaOH	1.77E + 07	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Sodium Hydroxide Double-Shell Tank Solids [Sketch ES-VAL-CC78]
 ASA Value: 2.30E+08 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW104	OH	11/30/83	T8797	1.080	.310E-0	M	R		RAW	NaOH	1.72E+07	
AY102	OH	5/10/84	R-9833	1.06	0.425	M	R		RAW	NaOH	1.70E+07	
AW104	OH	11/30/83	T8793	1.084	4.24E-01	M	R		RAW	NaOH	1.70E+07	
AY102	OH	5/10/84	R-9834	1.07	0.422	M	R		RAW	NaOH	1.69E+07	
AW105	OH	5/1/86		1.35	12	mg/g	S		RAW	NaOH	1.62E+07	
AW105	OH	2/24/87	T-7946	1.36	0.384	moles/l	I	Composite	Braun	NaOH	1.54E+07	
AW105	OH	2/24/87	7946	1.365	0.384	mol/l	G	Sludge	RAW	NaOH	1.54E+07	
AW103	OH	12/11/88	R-4346	1.49	0.34	M	G	Sludge	RAW	NaOH	1.36E+07	
AW105	OH	5/1/86		1.2	11	mg/g	G		RAW	NaOH	1.32E+07	
SY101	OH	11/18/90			0.31	M	S		RAW	NaOH	1.24E+07	
AW101	OH-	12/2/85	T-3251	1.03	0.28	M	R	Feed slurry set	RAW	NaOH	1.12E+07	
SY101	OH	11/18/90			0.09	M	S		RAW	NaOH	3.60E+06	
SY101	OH	7/14/80	T-1229	1.033	0.0875	M	S		RAW	NaOH	3.50E+06	
SY-102	OH				29387	g-moles	S		TRAC	NaOH	3.23E+06	
AY101	OH	6/5/78	7955	1.39	0.0794	M	S	solid phase	RAW	NaOH	3.18E+06	
SY101	OH	11/18/90			0.06	M	S		RAW	NaOH	2.40E+06	
AN106	OH	1/15/87	9137		4.00E-02	M	I		RAW	NaOH	1.60E+06	
AP106	OH-	2/14/94		9.96E-01	.43E+0	ug/mL	I		RAW	NaOH	1.43E+06	
AN106	OH	1/15/87	9138		3.00E-02	M	I		RAW	NaOH	1.20E+06	
Minimum Plot Limit: 1.00E+06 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Double-Shell Tank Liquids [Sketch ES-VAL-CC79]
 ASA Value: 5.62E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AN107	Nd	3/6/85	RAT-AN107-1B		0.00098	moles/l	P	Supernate	Braun	Nd	1.41E+05	33
AN107	Nd	5/13/94	R4048 J-1815	1.349	113	ug/mL	P	C-Cup Sample	RAW	Nd	1.13E+05	33
AN107	Nd	5/13/94	R4048 J-1814	1.352	109	ug/mL	P	C-Cup Sample	RAW	Nd	1.09E+05	33
AN107	Nd	5/13/94	R4047 J-1812	1.345	103	ug/mL	P	C-Cup Sample	RAW	Nd	1.03E+05	33
AN107	Nd	5/13/94	R4047 J-1813	1.363	99	ug/mL	P	C-Cup Sample	RAW	Nd	9.90E+04	33
AN107	Nd	5/13/94	R4047 J-1820	1.157	41	ug/mL	P	Water Wash	RAW	Nd	4.10E+04	33
AN107	Nd	5/13/94	R4047 J-1820	1.150	36	ug/mL	P	Water Wash	RAW	Nd	3.60E+04	33
AN107	Nd	5/13/94	R4048 J-1818	1.141	22	ug/mL	P	Water Wash	RAW	Nd	2.20E+04	33
AN107	Nd	5/13/94	R4047 J-1821	1.349	16	ug/mL	P	Water Wash	RAW	Nd	1.60E+04	33
ASA Value: 5.62E+03 ug/L												
AZ102	Nd	8/1/89			0.00562	g/L	P	Supernatant	Wastren	Nd	5.62E+03	
AZ102	Nd	10/1/90			0.033	umol/g	P		RAW	Nd	5.21E+03	
AZ102	Nd	9/1/93			0.033	umol/g	P		RAW	Nd	5.21E+03	
AZ101	Nd	5/1/89		1.24	0.008	umol/g	P	Core 2	RAW	Nd	1.43E+03	
AZ101	Nd	5/1/89			0.00141	g/L	P	Supernatant	Wastren	Nd	1.41E+03	
AZ101	Nd	9/1/90	RAT-AZ101-5A	1.22	0.008	umol/gm	P	Supernate	Braun	Nd	1.41E+03	
AN101	Nd	3/27/85	T-2832		3.1E-06	M	P		RAW	Nd	4.46E+02	
AY102	Nd	9/30/88		1	7E-07	M	P		RAW	Nd	1.01E+02	
Minimum Plot Limit: 1.00E+02 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Double-Shell Tank Solids [Sketch ES-VAL-CC80]
 ASA Value: 7.03E+06 ug/L

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Tank Waste Characterization Sample Information											Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L		
AZ101	Nd	5/1/89		1.84	30.1	umol/g	S	Core 2	RAW	Nd	7.98E+06	6	
AZ101	Nd2O3	9/1/89			0.58	wt %	S	core #1 Washed Solids	RAW	Nd	7.95E+06	34	
ASA Value: 7.03E+06 ug/L													
AZ101	Nd	9/1/90	RAT-AZ101-5B	1.62	30.1	umol/gm	I	Composite	Braun	Nd	7.03E+06	*	
AZ101	Nd	5/1/89			7.03	g/L	G	Sludge	Wastren	Nd	7.03E+06	*	
AZ102	Nd	9/1/93			20.3	umol/g	S	L1	RAW	Nd	4.67E+06		
AZ102	Nd	10/1/90			20.2	umol/g	S		RAW	Nd	4.65E+06		
AZ102	Nd	9/1/93			20.2	umol/g	S		RAW	Nd	4.65E+06		
AY102	Nd	9/30/88		1.4	0.019	mM/g	I		RAW	Nd	4.38E+06		
AZ102	Nd	8/1/89			4.34	g/L	G	Sludge	Wastren	Nd	4.34E+06		
AY102	Nd	9/30/88			0.018	mmol/g	S		RAW	Nd	4.14E+06		
AY102	Nd	6/30/88			3.84	g/L	I	Composite	Wastren	Nd	3.84E+06		
AY102	Nd	2/12/90	RAT-AY102-1B	1.4	0.019	mmol/gm	I	Composite	Braun	Nd	3.84E+06		
AY102	Nd	2/12/90		1.4	0.019	mmol/g	S	1st analysis	RAW	Nd	3.83E+06		
AZ102	Nd	9/1/93			14.1	umol/g	S	L2	RAW	Nd	3.24E+06		
AY102	Nd	2/12/90		1.4	0.016	mmol/g	S	2nd analysis	RAW	Nd	3.23E+06		
AY102	Nd	7/21/88	PNL12966	1.106	0.019	mmol/g	I		RAW	Nd	3.03E+06		
AZ101	Nd	9/1/89	RAT-AZ101-4B	1.7	0.012	mmol/gm	S	Supernate/Solids	Braun	Nd	2.94E+06		
AZ101	Nd	9/1/89		1.7	0.012	mmol/g	S		RAW	Nd	2.94E+06		
AY102	Nd	7/21/88	PNL12966	1.106	0.017	mmol/g	S		RAW	Nd	2.71E+06		
AY102	Nd	7/21/88	PNL12966	1.106	0.018	M	S		RAW	Nd	2.59E+06		
AY102	Nd	7/21/88	PNL12966	1.106	0.016	mmol/g	I		RAW	Nd	2.55E+06		
AZ102	Nd	9/1/93			9.1	umol/g	S	L4	RAW	Nd	2.09E+06		
AZ101	Nd	5/1/89		1.14	11.7	umol/g	S	Core 2	RAW	Nd	1.92E+06		
AZ101	Nd	4/8/86			0.013	M	S		RAW	Nd	1.87E+06		
AZ102	Nd	11/5/85	RAT-AZ102-2B	1.4	0.0112	moles/l	S	Solids	Braun	Nd	1.62E+06		
AZ102	Nd	9/1/93			6.7	umol/g	S	L3	RAW	Nd	1.54E+06		
AZ102	Nd	9/1/93			5.9	umol/g	S	Washed Solids	RAW	Nd	1.36E+06		
AZ102	Nd	10/1/90		1.11	5.9	umol/g	S		RAW	Nd	9.43E+05		
AY101	Nd	7/20/88	8371		0.005	M	S		RAW	Nd	7.20E+05		
SY102	Nd	10/1/88	102-SY-4B	1.8	0.002	mmol/gm	G	Sludge	Braun	Nd	5.19E+05		
SY102	Nd	10/1/88			0.519	g/L	G	Sludge	Wastren	Nd	5.19E+05		
SY102	Nd	6/30/89		1.8	0.002	mmol/g	S		RAW	Nd	5.18E+05		
SY102	Nd	1/25/90	102SY4B	1.8	0.002	mmol/g	S		RAW	Nd	5.18E+05		
SY102	Nd	1/25/90	102SY3T4S		0.002	mmol/g	S		RAW	Nd	4.60E+05		
SY102	Nd	6/30/89		1.42	0.002	mmol/g	S		RAW	Nd	4.09E+05		
AW105	Nd	2/24/87	T-7946	1.36	0.0024	moles/l	I	Composite	Braun	Nd	3.40E+05		
AW105	Nd	2/24/87	7946	1.365	0.00236	mol/l	G	Sludge	RAW	Nd	3.40E+05		

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Double-Shell Tank Solids [Sketch ES-VAL-CC80]
 ASA Value: 7.03E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	Nd	9/1/89		1.04	0.00202	mmol/g	S		RAW	Nd	3.03E+05	
AN102	Nd	3/14/85			0.298	g/L	G	Sludge	Wastren	Nd	2.98E+05	
AW105	Nd	2/24/87	T-7940	1.43	0.0018	moles/l	I	Composite	Braun	Nd	2.57E+05	
AW105	Nd	2/24/87	7940	1.37	0.00178	mol/l	G	Sludge	RAW	Nd	2.56E+05	
AW105	Nd	2/24/87	T-7939	1.18	0.0016	moles/l	I	Composite	Braun	Nd	2.24E+05	
AW105	Nd	2/24/87	7939	1.245	0.00155	mol/l	G	Sludge	RAW	Nd	2.23E+05	
AW105	Nd	2/24/87	T-7937	1.17	0.0015	moles/l	I	Composite	Braun	Nd	2.11E+05	
AW105	Nd	2/24/87	7937	1.235	0.00146	mol/l	G	Sludge	RAW	Nd	2.10E+05	
AN107	Nd	5/13/94	R4048 J-1826		130	ug/g	S	Solids Analysis by Acid Digestion	RAW	Nd	2.08E+05	
AN107	Nd	5/13/94	R4048 J-1827		127	ug/g	S	Solids Analysis by Acid Digestion	RAW	Nd	2.03E+05	
AZ101	Nd	4/8/86			0.0013	M	R		RAW	Nd	1.87E+05	
AW105	Nd	2/24/87			0.175	g/L	G	Sludge	Wastren	Nd	1.75E+05	
AW105	Nd	2/24/87	RAT-AW105-1	1.3	0.0012	moles/l	G	Sludge/Composite	Braun	Nd	1.75E+05	
AN107	Nd	5/13/94	R4048		0.0107	Wt%	G	Sludge	RAW	Nd	1.71E+05	
AN107	Nd	5/13/94	R4047 J-1824		107	ug/g	S	Solids Analysis by Acid Digestion	RAW	Nd	1.71E+05	
AN107	Nd	5/13/94	R4047 J-1825		101	ug/g	S	Solids Analysis by Acid Digestion	RAW	Nd	1.62E+05	
AN107	Nd	5/13/94	R4047		0.0091	Wt%	G	Sludge	RAW	Nd	1.46E+05	
AN107	Nd	5/13/94	R4048		0.0069	Wt%	G	C-Solids	RAW	Nd	1.10E+05	
AW105	Nd	5/1/86	RAT-AW105-2B	1.2	80	ugm/gm	G	Sludge	Braun	Nd	9.60E+04	
AN107	Nd	5/13/94	R4048		0.0056	Wt%	G	WW-Solids	RAW	Nd	8.96E+04	
AN107	Nd	5/13/94	R4048		0.0056	Wt%	S	WW-Solids	RAW	Nd	8.96E+04	
AN107	Nd	5/13/94	R4047		0.0054	Wt%	G	C-Solids	RAW	Nd	8.64E+04	
AW103	Nd	#####	R-4346B	1.49	0.0004	mmol/gm	S	Solids	Braun	Nd	8.17E+04	
AW105	Nd	2/24/87	T-7942	1.41	0.0005	moles/l	I	Composite	Braun	Nd	7.05E+04	
AW105	Nd	2/24/87	7942	1.57	0.00049	mol/l	G	Sludge	RAW	Nd	7.04E+04	
AN107	Nd	5/13/94	R4048		0.0044	Wt%	S	Solids Phase	RAW	Nd	7.04E+04	
AN107	Nd	5/13/94	R4047		0.0041	Wt%	G	WW-Solids	RAW	Nd	6.56E+04	
AN107	Nd	5/13/94	R4047		0.0041	Wt%	S	WW-Solids	RAW	Nd	6.56E+04	
AN107	Nd	5/13/94	R4048		0.0039	Wt%	G	C-Sup	RAW	Nd	6.24E+04	
AN107	Nd	5/13/94	R4047		0.0037	Wt%	G	C-Sup	RAW	Nd	5.92E+04	
AN107	Nd	5/13/94	R4047		0.0031	Wt%	S	Solids Phase	RAW	Nd	4.96E+04	
AW105	Nd	2/24/87	T-7941	1.34	0.0002	moles/l	I	Composite	Braun	Nd	2.68E+04	
AW105	Nd	2/24/87	7941	1.4	0.00019	mol/l	G	Sludge	RAW	Nd	2.68E+04	
AN107	Nd	5/13/94	R4047		0.0013	Wt%	G	WW-Sup	RAW	Nd	2.08E+04	
AN107	Nd	5/13/94	R4048		0.0013	Wt%	G	WW-Sup	RAW	Nd	2.08E+04	
AN107	Nd	5/13/94	R4048		0.0012	Wt%	S	WW-ISL	RAW	Nd	1.92E+04	
AN107	Nd	5/13/94	R4047		0.0011	Wt%	S	WW-ISL	RAW	Nd	1.76E+04	
AZ102	Nd	10/1/90		1.49	0.005	umol/g	I		RAW	Nd	1.07E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Neodymium Double-Shell Tank Solids [Sketch ES-VAL-CC80]
 ASA Value: 7.03E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
Minimum Plot Limit: 1.00E+03 ug/L												

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW103	NH3	3/26/86			9.45E-01	M	P	Supernatant	RAW	NH3	1.61E+07	37
AW105	NH3	1/1/85	R-4037	0.974	0.471	moles/l	L	Liquor	Braun	NH3	8.01E+06	13
ASA Value: 7.14E+06 ug/L												
AW103	NH3	12/11/88	R-4347		4.20E-01	M	P	Supernatant	RAW	NH3	7.14E+06	*
AW103	Ammonia	12/11/88	R-4347		0.42	moles/l	P	Supernate	Braun	NH3	7.14E+06	*
AW105	NH3	6/10/85	R-4036	0.974	4.17E-01	M	L	Clear	RAW	NH3	7.09E+06	
AW103	NH3	6/15/83			4.17E-01	M	P	Supernatant	RAW	NH3	7.09E+06	
AW103	NH3	8/1/84			4.17E-01	M	P	Supernatant	RAW	NH3	7.09E+06	
AW103	NH3	6/1/84	202107A		0.417	moles/l	P	Supernate	Braun	NH3	7.09E+06	
AW103	NH3	6/15/85	RAT-AW103-2B		0.417	moles/l	P	Supernate	Braun	NH3	7.09E+06	
AW105	NH3	1/1/85	R-4036	0.974	0.417	moles/l	L	Liquor	Braun	NH3	7.09E+06	
AW103	NH3	12/11/88	R-4349		4.10E-01	M	P	Supernatant	RAW	NH3	6.97E+06	
AW103	NH3	5/5/89	R-4345		4.10E-01	mol/l	P	Supernate	RAW	NH3	6.97E+06	
AW103	Ammonia	12/11/88	R-4345		0.41	moles/l	P	Supernate	Braun	NH3	6.97E+06	
AW105	NH3	11/6/85	T-3475	1.06	3.82E-01	M	U	Unknown	RAW	NH3	6.49E+06	
AP102	NH3	12/31/88		1.01	0.376976	M	U		RAW	NH3	6.41E+06	
AW103	NH3	10/4/88	R-3760		3.70E-01	M	P	Supernate	RAW	NH3	6.29E+06	
AP102	NH3	2/11/93		0.95676	0.357106	M	U		RAW	NH3	6.07E+06	
AP103	NH3	2/8/88	R-7369		2.04E-01	M	P	No solids	RAW	NH3	3.47E+06	
AP103	NH3	2/8/88	RAT-AP103-2		0.204	moles/l	P	Supernate	Braun	NH3	3.47E+06	
AP103	NH3	4/6/88			3.27E+00	g/L	P	Supernatant	Wastren	NH3	3.27E+06	
AP103	NH3	4/6/88	R-8090		1.92E-01	M	L	No solids	RAW	NH3	3.26E+06	
AW103	NH3	4/9/88	T-8200	1.04	1.92E-01	mol/l	L	No solids	RAW	NH3	3.26E+06	
AW103	NH3	4/10/88			1.92E-01	M	L	No solids	RAW	NH3	3.26E+06	
AP103	NH3	4/6/88	RAT-AP103-1		0.192	moles/l	P	Supernate	Braun	NH3	3.26E+06	
AW103	Ammonia	4/9/88	T-8200	1.04	0.192	moles/l	P	Supernate	Braun	NH3	3.26E+06	
AW103	NH3	4/9/88	T-8200	1.04	0.192	moles/l	P	Supernate	Braun	NH3	3.26E+06	
AP103	NH3	2/8/88	RAT-AP103-4		0.169	moles/l	P	Supernate	Braun	NH3	2.87E+06	
AY101	NH3	7/20/88			2.79E+00	g/L	P	Supernatant	Wastren	NH3	2.79E+06	
AY101	NH3	7/20/88	R-8371	1.09	2.79	gm/l	P	Supernate	Braun	NH3	2.79E+06	
AY101	NH3	7/20/88	8371	1.09	1.64E-01	M	P		RAW	NH3	2.79E+06	
AW103	NH3	8/7/85	4013	1.13	1.30E-01	M	F	Filtrate	RAW	NH3	2.21E+06	
AW103	NH3	1/1/85	4013	1.13	0.13	moles/l	F	Filtrate	Braun	NH3	2.21E+06	
AP101	Ammonia	7/1/93	BOB2G9	0.988	2.16E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.16E+06	
AP101	Ammonia	7/1/93	BOB2G9	0.988	2.04E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.04E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP101	Ammonia	7/1/93	B0B2H0	0.986	2.01E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.01E+06	
AP101	Ammonia	7/1/93	B0B2H1	0.985	1.98E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.98E+06	
AP101	Ammonia	7/1/93	B0B2H1	0.985	1.98E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.98E+06	
AW105	NH3	5/1/86		1.079	1.80E+00	mg/g	P		RAW	NH3	1.94E+06	
AP101	Ammonia	7/1/93	B0B2G8	0.983	1.94E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.94E+06	
AP101	Ammonia	7/1/93	B0B2H0	0.986	1.93E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.93E+06	
AP101	Ammonia	7/1/93	B0B2H1	0.985	1.91E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.91E+06	
AP101	Ammonia	7/1/93	B0B2H1	0.985	1.91E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.91E+06	
AP101	Ammonia	7/1/93	B0B2G8	0.983	1.89E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.89E+06	
AP101	Ammonia	7/1/93	B0B2G7	0.987	1.86E+03	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.86E+06	
AP101	Ammonia	7/1/93	B0B2G7	0.987	1.84E+03	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.84E+06	
AP103	NH3	1/30/88	R-7370		9.68E-02	M	P		RAW	NH3	1.65E+06	
AP103	NH3	1/30/88	RAT-AP103-3	0.9781	0.0968	moles/l	P	Supernate	Braun	NH3	1.65E+06	
AW103	NH3	8/7/85	3937	1.33	9.10E-02	M	F	Filtrate	RAW	NH3	1.55E+06	
AW103	NH3	11/30/84	2750		9.10E-02	M	P	Supernatant	RAW	NH3	1.55E+06	
AW103	NH3	1/1/85	3937	1.33	0.091	moles/l	F	Filtrate	Braun	NH3	1.55E+06	
AW103	NH3	8/1/84	2750		0.091	moles/l	P	Supernate	Braun	NH3	1.55E+06	
AW103	Ammonia	12/11/88	R-4346A		0.09	moles/l	P	Supernate	Braun	NH3	1.53E+06	
AW103	NH3	8/7/85	4013		6.80E-02	M	L	Water Wash	RAW	NH3	1.16E+06	
AW102	NH3	4/20/88	T8435	1.0371	5.90E-02	M	O	Slightly cloudy	RAW	NH3	1.00E+06	
AW102	Ammonia	4/20/88	T-8435	1.04	0.059	moles/l	P	Supernate	Braun	NH3	1.00E+06	
AW102	NH3	4/20/88	T-8435	1.04	0.059	moles/l	P	Supernate	Braun	NH3	1.00E+06	
sy101	Ammonia	12/1/91	B0BB62	1.1	8.90E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	9.79E+05	
sy101	Ammonia	12/1/91	B0BB62	1.1	8.90E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	9.79E+05	
AW105	NH3	8/17/88			8.94E-01	g/L	P	Supernatant	Wastren	NH3	8.94E+05	
AW105	NH3	7/8/88	T-805	1.013	5.25E-02	M	L		RAW	NH3	8.93E+05	
AW105	NH3	7/8/88	T-805	1.013	5.25E-02	mol/l	P		RAW	NH3	8.93E+05	
AW105	NH3	8/17/88	T-805	1.01	0.0525	moles/l	L	Liquor	Braun	NH3	8.93E+05	
AW103	NH3	8/7/85	3936	1.39	4.90E-02	M	F	Filtrate	RAW	NH3	8.33E+05	
AW103	NH3	8/7/85			4.90E-02	mol/l	P	Supernate	RAW	NH3	8.33E+05	
AW103	NH3	1/1/85	3936	1.39	0.049	moles/l	F	Filtrate	Braun	NH3	8.33E+05	
AW103	NH3	8/7/85	3937		4.70E-02	M	L	Water Wash	RAW	NH3	7.99E+05	
AW105	NH3	6/24/88	T-7966	1.0081	4.44E-02	mol/l	P		RAW	NH3	7.55E+05	
AW105	Ammonia	4/5/88	T-7966	1.008	0.0444	moles/l	P	Supernate	Braun	NH3	7.55E+05	
AW103	NH3	8/7/85	3936		3.90E-02	M	L	Water Wash	RAW	NH3	6.63E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW101	NH3	6/26/86	T-686	1.31	4.00E-02	Wt%	U	Evap feed	RAW	NH3	5.24E+05	
AW101	NH3	6/26/86		1.49	3.00E-02	Wt%	F	FILTRATE	RAW	NH3	4.47E+05	
aw102	Ammonia	12/1/93	BOBC12	1.03	4.10E+02	PPM	L	PRIMARY RESULT	TCD	NH3	4.22E+05	
AP102	Ammonia	4/1/93	BOB2N1	1.2	4.13E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	4.13E+05	
AP102	Ammonia	4/1/93	BOB2N1	1.2	4.10E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	4.10E+05	
aw106	Ammonia	12/1/93	BO8VS6	1.094	3.19E+02	PPM	L	PRIMARY RESULT	TCD	NH3	3.49E+05	
AP102	Ammonia	4/1/93	BOB2N1	1.2	3.08E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	3.08E+05	
AP102	Ammonia	4/1/93	BOB2N1	1.2	3.02E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	3.02E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.86E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	2.84E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.86E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	2.84E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.90E+02	ug/g	L	DUPLICATE RESULT	TCD	NH3	2.83E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.90E+02	ug/g	L	DUPLICATE RESULT	TCD	NH3	2.83E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.81E+02	ug/g	L	DUPLICATE RESULT	TCD	NH3	2.76E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.81E+02	ug/g	L	DUPLICATE RESULT	TCD	NH3	2.76E+05	
AW101	NH3	6/23/86		1.37	2.00E-02	Wt%	F	filtrate	RAW	NH3	2.74E+05	
AP102	Ammonia	4/1/93	BOB2M9	1.2	2.72E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.72E+05	
AP102	Ammonia	4/1/93	BOB2M9	1.2	2.72E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.72E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.19	2.65E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.65E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.19	2.65E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.65E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.19	2.58E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.58E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.19	2.58E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.58E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.72E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	2.56E+05	
sy101	Ammonia	12/1/91	BOB279	1.305	1.72E+02	ug/g	L	PRIMARY RESULT	TCD	NH3	2.56E+05	
AW101	NH3	11/6/85	T-2641	1.01	1.40E-02	M	P	2' BELOW	RAW	NH3	2.38E+05	
AW106	NH3	1/18/85	T-6851		1.40E-02	M	L		RAW	NH3	2.38E+05	
AW101	NH3	11/9/84	R-3214	1.03	1.30E-02	M	L	ALIQUOTS	RAW	NH3	2.21E+05	
AW101	NH3	3/30/86	T-7698	0.993	1.30E-02	M	L		RAW	NH3	2.21E+05	
AY102	NH3	11/9/84	R-3214	1.03	1.30E-02	M	U		RAW	NH3	2.21E+05	
AY102	NH3	11/9/84	R3214		1.30E-02	M	U		RAW	NH3	2.21E+05	
AY102	NH3	11/9/84	R-3214	1.03	0.013	moles/l	P	Supernate	Braun	NH3	2.21E+05	
SY101	NH3	8/20/92			0.02	Wt%	L		RAW	NH3	2.20E+05	
sy101	Ammonia	12/1/91	BOB281	1.24	9.00E+01	ug/g	L	DUPLICATE RESULT	TCD	NH3	2.06E+05	
sy101	Ammonia	12/1/91	BOB281	1.24	9.00E+01	ug/g	L	PRIMARY RESULT	TCD	NH3	2.06E+05	
AW101	NH3	8/21/85	T-9368	1.0392	1.19E-02	M	O	two phases	RAW	NH3	2.02E+05	
AW101	NH4	8/18/85	T9368	1.0392	1.19E-02	M	P	Supernate	RAW	NH3	2.02E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Ammonia	4/1/93	BOB2N4	1.21	2.01E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.01E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	2.01E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	2.01E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	2.01E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.01E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	2.01E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	2.01E+05	
AW101	NH3	4/21/85	T5350	1.0279	1.15E-02	M	L	NO SOLIDS	RAW	NH3	1.96E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	1.95E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.95E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	1.95E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.95E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	1.92E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.92E+05	
AP102	Ammonia	4/1/93	BOB2N4	1.21	1.92E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.92E+05	
AN101	NH3	7/4/88			1.72E-01	g/L	P	Supernate	Wastren	NH3	1.72E+05	
AN105	NH3	11/9/84			1.70E-01	g/L	P	Supernatant	Wastren	NH3	1.70E+05	
AN105	NH3	11/9/84		1.434	1.00E-02	M	U		RAW	NH3	1.70E+05	
AP106	Ammonia	3/1/93	BOB2G2	0.997	1.60E+02	ug/mL	L	DUPLICATE RESULT	TCD	NH3	1.60E+05	
AP106	Ammonia	3/1/93	BOB2G2	0.997	1.60E+02	ug/mL	L	PRIMARY RESULT	TCD	NH3	1.60E+05	
AW101	NH3	7/2/86		1.5	1.00E-02	Wt%	F	FILTRATE	RAW	NH3	1.50E+05	
sy101	Ammonia	12/1/91	BOB280	1.33	9.00E+01	ug/g	L	DUPLICATE RESULT	TCD	NH3	1.46E+05	
sy101	Ammonia	12/1/91	BOB280	1.33	9.00E+01	ug/g	L	PRIMARY RESULT	TCD	NH3	1.46E+05	
SY101	NH3	May 91			1.46E-01	g/L	L	Liquid	Wastren	NH3	1.46E+05	
SY101	NH3	May 91			1.46E-01	g/L	L	Liquid	Wastren	NH3	1.46E+05	
aw102	Ammonia	12/1/93	BOBC12	1.03	1.38E+02	PPM	L	PRIMARY RESULT	TCD	NH3	1.42E+05	
sy101	Ammonia	12/1/91	BOB281	1.24	9.00E+01	ug/g	L	DUPLICATE RESULT	TCD	NH3	1.41E+05	
sy101	Ammonia	12/1/91	BOB281	1.24	9.00E+01	ug/g	L	PRIMARY RESULT	TCD	NH3	1.41E+05	
aw102	Ammonia	12/1/93	BOBC12	1.03	1.27E+02	PPM	L	PRIMARY RESULT	TCD	NH3	1.31E+05	
sy101	Ammonia	12/1/91	BOB280	1.33	9.00E+01	ug/g	L	DUPLICATE RESULT	TCD	NH3	1.26E+05	
sy101	Ammonia	12/1/91	BOB280	1.33	9.00E+01	ug/g	L	PRIMARY RESULT	TCD	NH3	1.26E+05	
AW101	NH3	11/9/84	R-3185	1.024	7.00E-03	M	L	ALIQUOTS	RAW	NH3	1.19E+05	
AW101	NH3	11/9/84	R-3185	1.024	0.007	moles/l	P	Supernate	Braun	NH3	1.19E+05	
sy101	Ammonia	12/1/91	BOB9X3	1.267	9.10E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	1.15E+05	
AW101	NH3	11/6/85	T-2601	1.01	6.00E-03	M	P	6' BELOW	RAW	NH3	1.02E+05	
sy101	Ammonia	12/1/91	BOBB23	1.144	8.05E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	9.21E+04	
sy101	Ammonia	12/1/91	BOB9X3	1.267	7.20E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	9.12E+04	
sy101	Ammonia	12/1/91	BOB9X3	1.1	9.10E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	9.10E+04	
AP103	Ammonia	11/1/91	BOBC21	1	9.00E+01	PPM	L	DUPLICATE RESULT	TCD	NH3	9.00E+04	
AP103	Ammonia	11/1/91	BOBC21	1	9.00E+01	PPM	L	PRIMARY RESULT	TCD	NH3	9.00E+04	
AP103	Ammonia	11/1/91	BOBC21	1	9.00E+01	PPM	L	PRIMARY RESULT	TCD	NH3	9.00E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP103	Ammonia	11/1/91	B0BC21	1	9.00E+01	PPM	L	PRIMARY RESULT	TCD	NH3	9.00E+04	
sy101	Ammonia	12/1/91	B0BB23	1.144	7.69E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	8.80E+04	
AY101	NH3	6/23/87		1.09	5.00E-03	M	P		RAW	NH3	8.50E+04	
AY101	NH3	3/1/87	RAT-AY101-1	1.09	0.005	moles/l	P	Supernate	Braun	NH3	8.50E+04	
sy101	Ammonia	12/1/91	B0BB23	1.1	8.05E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	8.05E+04	
AP107	Ammonia	8/1/93	B08W48	0.99	8.00E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	8.00E+04	
sy101	Ammonia	12/1/91	B0B9X3	1.267	6.30E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	7.98E+04	
sy101	Ammonia	12/1/91	B0B9Z7	1.16	6.80E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	7.89E+04	
AY101	NH3	10/4/82			4.58E-03	M	L		RAW	NH3	7.79E+04	
sy101	Ammonia	12/1/91	B0BB23	1.1	7.69E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	7.69E+04	
sy101	Ammonia	12/1/91	B0B9X3	1.1	7.20E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	7.20E+04	
SY102	NH4	3/12/93	R3353	1.064	7.16E+01	ug/mL	O	Bottom	RAW	NH3	7.16E+04	
aw102	Ammonia	12/1/93	B0BC12	1.03	6.80E+01	PPM	L	DUPLICATE RESULT	TCD	NH3	7.00E+04	
AW102	NH3	4/20/88			6.81E-02	g/L	P	Supernatant	Wastren	NH3	6.81E+04	
sy101	Ammonia	12/1/91	B0B9Z7	1.1	6.80E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	6.80E+04	
AW106	NH3	8/7/88			6.76E-02	g/L	P	Supernatant	Wastren	NH3	6.76E+04	
aw106	Ammonia	12/1/93	B08VS6	1.094	6.08E+01	PPM	L	DUPLICATE RESULT	TCD	NH3	6.65E+04	
AP103	Ammonia	11/1/91	B0BC21	1	6.57E+01	PPM	L	PRIMARY RESULT	TCD	NH3	6.57E+04	
aw106	Ammonia	12/1/93	B08VS6	1.094	5.90E+01	PPM	L	PRIMARY RESULT	TCD	NH3	6.45E+04	
sy101	Ammonia	12/1/91	B0B9X3	1.1	6.30E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	6.30E+04	
AW101	NH3	7/2/86	T-882	1.32	4.77E-03	Wt%	U	Evap feed	RAW	NH3	6.30E+04	
SY102	NH3	11/8/84		1.17	3.60E-03	M	P		RAW	NH3	6.12E+04	
aw102	Ammonia	12/1/93	B0BC12	1.03	5.72E+01	PPM	L	PRIMARY RESULT	TCD	NH3	5.89E+04	
sy101	Ammonia	12/1/91	B0B9Z7	1.17	4.60E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	5.38E+04	
sy101	Ammonia	12/1/91	B0BB23	1.142	4.12E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	4.71E+04	
sy101	Ammonia	12/1/91	B0B9Z7	1.1	4.60E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	4.60E+04	
AP103	Ammonia	11/1/91	B0BC21	1	4.50E+01	PPM	L	PRIMARY RESULT	TCD	NH3	4.50E+04	
sy101	Ammonia	12/1/91	B0B9Z7	1.1	4.40E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	4.40E+04	
sy101	Ammonia	12/1/91	B0BB23	1.1	4.12E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	4.12E+04	
AP105	Ammonia	3/1/93	B0B3D1	1.32	4.00E+01	ug/mL	L	PRIMARY RESULT	TCD	NH3	4.00E+04	
AP103	Ammonia	11/1/91	B0BC21	1	3.50E+01	PPM	L	PRIMARY RESULT	TCD	NH3	3.50E+04	
AW101	NH3	6/23/86	T-621	1.44	1.59E-03	Wt%	U	Evap feed	RAW	NH3	2.29E+04	
AP103	Ammonia	11/1/91	B0BC21	1	2.25E+01	PPM	L	PRIMARY RESULT	TCD	NH3	2.25E+04	
sy101	Ammonia	12/1/91	B0BB41	1.072	1.80E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	1.93E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Liquids [Sketch ES-VAL-CC81]
 ASA Value: 7.14E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Ammonia	12/1/91	BOBB41	1.1	1.80E+01	MG/L	L	DUPLICATE RESULT	TCD	NH3	1.80E+04	
sy101	Ammonia	12/1/91	BOBB41	1.1	1.80E+01	MG/L	L	PRIMARY RESULT	TCD	NH3	1.80E+04	
AP103	Ammonia	11/1/91	BOBC21	1	1.31E+01	PPM	L	PRIMARY RESULT	TCD	NH3	1.31E+04	
Minimum Plot Limit: 1.00E+04 ug/L												

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Solids [Sketch ES-VAL-CC82]
 ASA Value: 6.61E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	
ASA Value: 6.61E+06 ug/L												
sy101	Ammonia	12/1/91	BOBB23	1.6	4.13E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	6.61E+06	*
AW101	NH3	12/9/85	T-3475	1.06	3.82E-01	M	R	Feed slurry set	RAW	NH3	6.49E+06	
Preliminary ASA Value: 6.5E+06 ug/L												
sy101	Ammonia	12/1/91	BOBB41	1.6	3.76E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	6.02E+06	
SY101	NH3	5/1/91			5.99E+00	g/L	I	Composite 4	Wastren	NH3	5.99E+06	
SY101	NH3	10/6/92			0.37	Wt%	I		RAW	NH3	5.92E+06	
sy101	Ammonia	12/1/91	BOBB41	1.6	3.56E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	5.70E+06	
SY101	NH3	5/1/91			5.02E+00	g/L	I	Composite 3	Wastren	NH3	5.02E+06	
SY101	NH3	10/6/92			0.31	Wt%	I		RAW	NH3	4.96E+06	
sy101	Ammonia	12/1/91	BOB9X3	1.6	2.92E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	4.67E+06	
sy101	Ammonia	12/1/91	BOB9Z7	1.6	2.61E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	4.18E+06	
SY101	NH3	10/6/92			0.26	Wt%	S		RAW	NH3	4.16E+06	
sy101	Ammonia	12/1/91	BOB279	1.306	3.09E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	4.04E+06	
sy101	Ammonia	12/1/91	BOBBX7	1.6	2.46E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.94E+06	
SY101	NH3	5/1/91			3.93E+00	g/L	S	Solids	Wastren	NH3	3.93E+06	
SY101	NH3	8/20/92			0.24	Wt%	S		RAW	NH3	3.84E+06	
SY101	NH3	8/20/92			0.24	Wt%	S		RAW	NH3	3.84E+06	
SY101	NH3	8/20/92			0.24	Wt%	S		RAW	NH3	3.84E+06	
sy101	Ammonia	12/1/91	BOBB23	1.6	2.14E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	3.42E+06	
sy101	Ammonia	12/1/91	BOB279	1.306	2.50E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.27E+06	
sy101	Ammonia	12/1/91	BOB279	1.306	2.49E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	3.25E+06	
sy101	Ammonia	12/1/91	BOB279	1.306	2.49E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.25E+06	
SY101	NH3	8/20/92			0.20	Wt%	S		RAW	NH3	3.20E+06	
sy101	Ammonia	12/1/91	BOBB23	1.6	1.97E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.15E+06	
sy101	Ammonia	12/1/91	BOB281	1.244	2.47E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	3.07E+06	
sy101	Ammonia	12/1/91	BOB281	1.244	2.45E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.05E+06	
SY101	NH3	10/6/92			0.19	Wt%	S		RAW	NH3	3.04E+06	
sy101	Ammonia	12/1/91	BOB281	1.244	2.42E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	3.01E+06	
sy101	Ammonia	12/1/91	BOB281	1.244	2.41E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	3.00E+06	
SY101	NH3	5/1/91			2.87E+00	g/L	S	Solids	Wastren	NH3	2.87E+06	
sy101	Ammonia	12/1/91	BOB282	1.235	2.17E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	2.68E+06	
sy101	Ammonia	12/1/91	BOB282	1.235	2.17E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	2.68E+06	
sy101	Ammonia	12/1/91	BOB282	1.235	1.94E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	2.40E+06	
sy101	Ammonia	12/1/91	BOB282	1.235	1.94E+03	ug/g	S	DUPLICATE RESULT	TCD	NH3	2.40E+06	
sy101	Anmonia	12/1/91	BOB282	1.235	1.93E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	2.38E+06	
sy101	Ammonia	12/1/91	BOB282	1.235	1.93E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	2.38E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Solids [Sketch ES-VAL-CC82]
 ASA Value: 6.61E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Ammonia	12/1/91	B0B282	1.235	1.87E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	2.31E+06	
sy101	Ammonia	12/1/91	B0B282	1.235	1.87E+03	ug/g	S	PRIMARY RESULT	TCD	NH3	2.31E+06	
AW105	NH3	2/24/87	7940	1.37	1.34E-01	mol/l	G	Sludge	RAW	NH3	2.28E+06	
AW105	NH3	2/24/87	T-7940	1.43	0.134	moles/l	I	Composite	Braun	NH3	2.28E+06	
AW105	NH3	2/24/87	7937	1.235	1.27E-01	mol/l	G	Sludge	RAW	NH3	2.16E+06	
AW105	NH3	2/24/87	T-7937	1.17	0.127	moles/l	I	Composite	Braun	NH3	2.16E+06	
AW103	NH3	11/4/88	R-4252	1.41	9.50E-02	M	G	Sludge	RAW	NH3	1.62E+06	
AW106	NH3	4/29/86	R-8587	1.24	9.50E-02	M	S		RAW	NH3	1.62E+06	
AW105	NH3	2/24/87			1.59E+00	g/L	G	Sludge	Wastren	NH3	1.59E+06	
AW105	NH3	2/24/87	RAT-AW105-1	1.3	0.0932	moles/l	G	Sludge/Composite	Braun	NH3	1.58E+06	
AW103	NH3	12/11/88	R-4346	1.49	9.00E-02	M	G	Sludge	RAW	NH3	1.53E+06	
AW105	NH3	2/24/87	7939	1.245	8.90E-02	mol/l	G	Sludge	RAW	NH3	1.51E+06	
SY101	NH3	8/20/92			0.09	Wt%	S		RAW	NH3	1.44E+06	
SY101	NH3	8/20/92			0.09	Wt%	S		RAW	NH3	1.44E+06	
sy101	Ammonia	12/1/91	B0B9X3	1.6	8.90E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	1.42E+06	
sy101	Ammonia	12/1/91	B0B9Z7	1.6	8.90E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	1.42E+06	
sy101	Ammonia	12/1/91	B0B9Z7	1.6	8.90E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	1.42E+06	
sy101	Ammonia	12/1/91	B0B9X3	1.6	8.80E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	1.41E+06	
sy101	Ammonia	12/1/91	B0B9X3	1.6	8.80E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	1.41E+06	
AW105	NH3	2/24/87	7941	1.4	8.00E-02	mol/l	G	Sludge	RAW	NH3	1.36E+06	
AW105	NH3	2/24/87	T-7941	1.34	0.08	moles/l	I	Composite	Braun	NH3	1.36E+06	
sy101	Ammonia	12/1/91	B0BBC7	1.6	5.70E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	9.12E+05	
AW105	NH3	2/24/87	7942	1.57	4.90E-02	mol/l	G	Sludge	RAW	NH3	8.33E+05	
AW105	NH3	2/24/87	T-7942	1.41	0.049	moles/l	I	Composite	Braun	NH3	8.33E+05	
sy101	Ammonia	12/1/91	B0BBC7	1.6	4.95E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	7.92E+05	
AW104	NH3	4/29/86	R-8586	1.48	4.40E-02	M	R		RAW	NH3	7.48E+05	
AW103	NH3	10/4/88	R-3761	1.38	4.20E-02	M	G	Sludge	RAW	NH3	7.14E+05	
sy101	Ammonia	12/1/91	B0BBD5	1.6	3.80E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	6.08E+05	
AW101	NH3	6/26/86	R-9894	1.5	4.00E-02	Wt%	R	SLURRY	RAW	NH3	6.00E+05	
sy101	Ammonia	12/1/91	B0BBD5	1.6	3.69E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	5.90E+05	
sy101	Ammonia	12/1/91	B0BBD5	1.6	3.60E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	5.76E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.60E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	5.76E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.50E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	5.60E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.50E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	5.60E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.50E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	5.60E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.50E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	5.60E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.50E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	5.60E+05	
sy101	Ammonia	12/1/91	B0BBX7	1.6	3.00E+02	ug/g	S	DUPLICATE RESULT	TCD	NH3	4.80E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Ammonia Double-Shell Tank Solids [Sketch ES-VAL-CC82]
 ASA Value: 6.61E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
sy101	Ammonia	12/1/91	BOBBX7	1.6	3.00E+02	ug/g	S	PRIMARY RESULT	TCD	NH3	4.80E+05	
AW105	NH3	5/1/86		1.2	3.90E-01	mg/g	G		RAW	NH3	4.68E+05	
AW101	NH3	6/23/86	R-9893	1.36	3.00E-02	Wt%	R	SLURRY	RAW	NH3	4.08E+05	
AN103	NH3	9/25/87	TKO92587		1.29E+01	umole/g	Y	slurry	RAW	NH3	3.51E+05	
SY101	NH3	10/6/92			0.02	Wt%	I		RAW	NH3	3.20E+05	
AW105	NH3	5/1/86		1.35	2.20E-01	mg/g	S		RAW	NH3	2.97E+05	
AW103	NH3	10/4/88	R-3762	1.42	1.50E-02	M	G	Sludge	RAW	NH3	2.55E+05	
AW101	NH3	6/28/90			2.47E-01	g/L	R	Slurry	Wastren	NH3	2.47E+05	
AW101	NH3	6/28/90	RAT-AW101-1	1.54	0.0145	moles/l	I	Composite	Braun	NH3	2.47E+05	
AW103	NH3	11/30/84	2838		1.20E-02	M	S	Water soluble Solids	RAW	NH3	2.04E+05	
AN105	NH3	11/9/84	RAT-AN105-1	1.434	0.01	moles/l	G	Sludge	Braun	NH3	1.70E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.2	1.64E+02	ug/mL	S	DUPLICATE RESULT	TCD	NH3	1.64E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.2	1.64E+02	ug/mL	S	DUPLICATE RESULT	TCD	NH3	1.64E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.2	1.60E+02	ug/mL	S	PRIMARY RESULT	TCD	NH3	1.60E+05	
AP102	Ammonia	4/1/93	BOB2T9	1.2	1.60E+02	ug/mL	S	PRIMARY RESULT	TCD	NH3	1.60E+05	
SY101	NH3	10/6/92			0.01	Wt%	I		RAW	NH3	1.60E+05	
SY101	NH3	10/6/92			0.01	Wt%	I		RAW	NH3	1.60E+05	
AW101	NH3	7/2/86	R-9896	1.53	1.00E-02	Wt%	R	SLURRY	RAW	NH3	1.53E+05	
AW105	NH3	2/24/87	7946	1.365	7.00E-03	mol/l	G	Sludge	RAW	NH3	1.19E+05	
AW101	NH3	11/9/84	R3185	1.024	0.007	M	I		RAW	NH3	1.19E+05	
AW105	NH3	2/24/87	T-7946	1.36	0.007	moles/l	I	Composite	Braun	NH3	1.19E+05	
AW102	NH 3	2/24/86	R4149	1.50	3.73E-03	M	R		RAW	NH 3	6.34E+04	

Minimum Plot Limit: 1.00E+04 ug/L

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Antimony Double-Shell Tank Liquids [Sketch ES-VAL-CC83]

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ASA Value: 6.36E+03 ug/L

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP106	Antimony	3/1/93	B0B2B9	0.998	268000	UG/L	L	DUPLICATE RESULT	TCD	Sb	2.68E+05	20
AP106	Antimony	3/1/93	B0B2C0	1	268000	UG/L	L	DUPLICATE RESULT	TCD	Sb	2.68E+05	20
AP106	Antimony	3/1/93	B0B2B9	0.998	268000	UG/L	L	PRIMARY RESULT	TCD	Sb	2.68E+05	20
AP106	Antimony	3/1/93	B0B2C0	1	268000	UG/L	L	PRIMARY RESULT	TCD	Sb	2.68E+05	20
AP105	Antimony	3/1/93	B0B3C8	1.327	263000	UG/L	L	DUPLICATE RESULT	TCD	Sb	2.63E+05	20
AP105	Antimony	3/1/93	B0B3C8	1.327	263000	UG/L	L	PRIMARY RESULT	TCD	Sb	2.63E+05	20
Preliminary ASA Value: 1.60E+05 ug/L												20
AP106	Antimony	3/1/93	B0B2C2	0.997	52500	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C2	0.997	52500	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C3	0.993	52500	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C5	0.994	52500	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C2	0.997	52500	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C2	0.997	52500	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C3	0.993	52500	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2C5	0.994	52500	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+04	20
AP106	Antimony	3/1/93	B0B2G2	0.997	31500	UG/L	L	DUPLICATE RESULT	TCD	Sb	3.15E+04	20
AP106	Antimony	3/1/93	B0B2G2	0.997	31500	UG/L	L	PRIMARY RESULT	TCD	Sb	3.15E+04	20
AP105	Antimony	3/1/93	B08VX6	1.34	12900	UG/L	L	DUPLICATE RESULT	TCD	Sb	1.29E+04	20
AP105	Antimony	3/1/93	B08VX7	1.3	12900	UG/L	L	DUPLICATE RESULT	TCD	Sb	1.29E+04	20
AP105	Antimony	3/1/93	B08VX6	1.34	12900	UG/L	L	PRIMARY RESULT	TCD	Sb	1.29E+04	20
AP105	Antimony	3/1/93	B08VX7	1.3	12900	UG/L	L	PRIMARY RESULT	TCD	Sb	1.29E+04	20
AP102	Sb	2/11/93		0.956764	7.57833	ppm	U		RAW	Sb	7.25E+03	20
AP105	Antimony	3/1/93	B08VX8	1.377	7160	UG/L	L	PRIMARY RESULT	TCD	Sb	7.16E+03	20
ASA Value: 6.36E+03 ug/L												
AP105	Antimony	3/1/93	B08VX8	1.377	6360	UG/L	L	DUPLICATE RESULT	TCD	Sb	6.36E+03	*
AP105	Antimony	3/1/93	B08VX4	1.39	5970	UG/L	L	PRIMARY RESULT	TCD	Sb	5.97E+03	
AP105	Antimony	3/1/93	B08VX0	1.35	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX1	1.34	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX1	1.34	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX2	1.298	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX3	1.3	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX4	1.39	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX5	1.34	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX9	1.33	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B0B3C9	1.3	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Double-Shell Tank Liquids [Sketch ES-VAL-CC83]
 ASA Value: 6.36E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AP105	Antimony	3/1/93	B0B3D1	1.334	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B0B3D2	1.329	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP106	Antimony	3/1/93	B0B2B8	0.997	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP106	Antimony	3/1/93	B0B2C1	0.996	5250	UG/L	L	DUPLICATE RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX0	1.35	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX1	1.34	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX1	1.34	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX2	1.298	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX3	1.3	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX5	1.34	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B08VX9	1.33	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B0B3C9	1.3	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B0B3D1	1.334	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP105	Antimony	3/1/93	B0B3D2	1.329	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP106	Antimony	3/1/93	B0B2B8	0.997	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
AP106	Antimony	3/1/93	B0B2C1	0.996	5250	UG/L	L	PRIMARY RESULT	TCD	Sb	5.25E+03	
Minimum Plot Limit: 1.00E+03 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Antimony Double-Shell Tank Solids [Sketch ES-VAL-CC84]
 ASA Value: 9.47E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 9.47E+03 ug/L												
AP102	Antimony	4/1/93	B0B2M4	1.2	9470	UG/L	S	PRIMARY RESULT	TCD	Sb	9.47E+03	*
AP102	Antimony	4/1/93	B0B2L7	1.2	7570	UG/L	S	PRIMARY RESULT	TCD	Sb	7.57E+03	
AP102	Antimony	4/1/93	B0B2L7	1.2	7570	UG/L	S	PRIMARY RESULT	TCD	Sb	7.57E+03	
AP102	Antimony	4/1/93	B0B2M3	1.2	6580	UG/L	S	DUPLICATE RESULT	TCD	Sb	6.58E+03	
AP102	Antimony	4/1/93	B0B2M3	1.2	6580	UG/L	S	DUPLICATE RESULT	TCD	Sb	6.58E+03	
AP102	Antimony	4/1/93	B0B2N3	1.6	6560	UG/L	S	PRIMARY RESULT	TCD	Sb	6.56E+03	
AP102	Antimony	4/1/93	B0B2L7	1.2	6340	UG/L	S	DUPLICATE RESULT	TCD	Sb	6.34E+03	
AP102	Antimony	4/1/93	B0B2L7	1.2	6340	UG/L	S	DUPLICATE RESULT	TCD	Sb	6.34E+03	
AP102	Antimony	4/1/93	B0B2N4	1.2	6000	UG/L	S	PRIMARY RESULT	TCD	Sb	6.00E+03	
AP102	Antimony	4/1/93	B0B2N4	1.2	6000	UG/L	S	PRIMARY RESULT	TCD	Sb	6.00E+03	
AP102	Antimony	4/1/93	B0B2N2	1.6	5820	UG/L	S	PRIMARY RESULT	TCD	Sb	5.82E+03	
AP102	Antimony	4/1/93	B0B2M4	1.2	5530	UG/L	S	DUPLICATE RESULT	TCD	Sb	5.53E+03	
Preliminary ASA Value: 5.1E+03 ug/L												
Minimum Plot Limit: 1.00E+03 ug/L												

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Double-Shell Tank Liquids [Sketch ES-VAL-CC85]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP103	Selenium	11/1/91	B0BC21	1	5000	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+06	20
ASA Value: 2.84E+05 ug/L												
AZ101	Se	9/1/89		1.2	0.003	mmol/g	P		RAW	Se	2.84E+05	*
AZ101	Se	9/1/89	RAT-AZ101-4A	1.2	0.003	mmol/gm	P	Supernate	Braun	Se	2.84E+05	*
AZ102	Se	Aug 89			0.0112	g/L	P	Supernatant	Wastren	Se	1.12E+04	
Preliminary ASA Value: 1.1E+04 ug/L												
AZ102	Se	10/1/90			0.12	umol/g	P		RAW	Se	1.04E+04	
AZ102	Se	9/1/93			0.12	umol/g	P		RAW	Se	1.04E+04	
AZ101	Se	9/1/89		1.2	0.0000633	mmol/g	L		RAW	Se	6.00E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
AP102	Selenium	4/1/93	B0B2N1	1.2	0.679	ug/mL	L	PRIMARY_RESULT	TCD	Se	6.79E+02	
AP102	Selenium	4/1/93	B0B2T9	1.19	0.602	ug/mL	L	DUPLICATE_RESULT	TCD	Se	6.02E+02	
AP102	Selenium	4/1/93	B0B2T9	1.19	0.602	ug/mL	L	DUPLICATE_RESULT	TCD	Se	6.02E+02	
AP102	Selenium	4/1/93	B0B2T9	1.19	0.595	ug/mL	L	PRIMARY_RESULT	TCD	Se	5.95E+02	
AP102	Selenium	4/1/93	B0B2T9	1.19	0.595	ug/mL	L	PRIMARY_RESULT	TCD	Se	5.95E+02	
AP102	Selenium	4/1/93	B0B2N4	1.21	0.593	ug/mL	L	PRIMARY_RESULT	TCD	Se	5.93E+02	
AP102	Selenium	4/1/93	B0B2N4	1.21	0.593	ug/mL	L	PRIMARY_RESULT	TCD	Se	5.93E+02	
AP102	Selenium	4/1/93	B0B2N1	1.2	0.588	ug/mL	L	DUPLICATE_RESULT	TCD	Se	5.88E+02	
AP102	Selenium	4/1/93	B0B2N4	1.21	0.563	ug/mL	L	DUPLICATE_RESULT	TCD	Se	5.63E+02	
AP102	Selenium	4/1/93	B0B2N4	1.21	0.563	ug/mL	L	DUPLICATE_RESULT	TCD	Se	5.63E+02	
AP105	Selenium	3/1/93	B0B3D1	1.334	0.252	ug/mL	L	PRIMARY_RESULT	TCD	Se	2.52E+02	
AP105	Selenium	3/1/93	B0B3D1	1.334	0.25	ug/mL	L	DUPLICATE_RESULT	TCD	Se	2.50E+02	
AP105	Selenium	3/1/93	B0B3D2	1.329	0.25	ug/mL	L	DUPLICATE_RESULT	TCD	Se	2.50E+02	
AP105	Selenium	3/1/93	B0B3D2	1.329	0.25	ug/mL	L	PRIMARY_RESULT	TCD	Se	2.50E+02	
AP105	Selenium	3/1/93	B08VX8	1.377	0.21	ug/mL	L	DUPLICATE_RESULT	TCD	Se	2.10E+02	
SY102	Se	1/4/89	R-4332	1.18	0.165	ppm	L		RAW	Se	1.95E+02	
AP105	Selenium	3/1/93	B08VX8	1.377	0.179	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.79E+02	
AP105	Selenium	3/1/93	B08VX9	1.33	0.169	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.69E+02	
AP105	Selenium	3/1/93	B08VX2	1.298	0.168	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.68E+02	
AP105	Selenium	3/1/93	B08VX3	1.3	0.166	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.66E+02	
AP105	Selenium	3/1/93	B08VX4	1.39	0.164	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.64E+02	
SY102	Se	11/1/88		1.18	0.000002	M	L	3+Upper 4	RAW	Se	1.58E+02	

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WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Double-Shell Tank Liquids [Sketch ES-VAL-CC85]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP105	Selenium	3/1/93	B08VX3	1.3	0.154	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.54E+02	
AP105	Selenium	3/1/93	B08VX2	1.298	0.153	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.53E+02	
AP105	Selenium	3/1/93	B08VX4	1.39	0.153	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.53E+02	
AP105	Selenium	3/1/93	B08VX9	1.33	0.153	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.53E+02	
AP105	Selenium	3/1/93	B08VX7	1.3	0.151	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.51E+02	
AP105	Selenium	3/1/93	B08VX6	1.34	0.146	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.46E+02	
AP105	Selenium	3/1/93	B0B3C8	1.327	0.145	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.45E+02	
AP105	Selenium	3/1/93	B0B3C9	1.3	0.137	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.37E+02	
AP105	Selenium	3/1/93	B0B3C9	1.3	0.136	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.36E+02	
AP105	Selenium	3/1/93	B08VX6	1.34	0.135	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.35E+02	
AP105	Selenium	3/1/93	B08VX7	1.3	0.135	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.35E+02	
AP105	Selenium	3/1/93	B08VX0	1.35	0.133	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.33E+02	
AP105	Selenium	3/1/93	B08VX5	1.34	0.127	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.27E+02	
AP105	Selenium	3/1/93	B08VX5	1.34	0.124	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.24E+02	
AP105	Selenium	3/1/93	B08VX0	1.35	0.122	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.22E+02	
AP105	Selenium	3/1/93	B0B3C8	1.327	0.118	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.18E+02	
AP105	Selenium	3/1/93	B08VX1	1.34	0.118	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.18E+02	
AP105	Selenium	3/1/93	B08VX1	1.34	0.118	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.18E+02	
AP105	Selenium	3/1/93	B08VX1	1.34	0.116	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.16E+02	
AP105	Selenium	3/1/93	B08VX1	1.34	0.116	ug/mL	L	DUPLICATE_RESULT	TCD	Se	1.16E+02	
AP105	Selenium	3/1/93	B08VX6	1.34	0.103	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.03E+02	
AP105	Selenium	3/1/93	B08VX6	1.34	0.102	ug/mL	L	PRIMARY_RESULT	TCD	Se	1.02E+02	
AP106	Selenium	3/1/93	B0B2B9	0.998	0.069	ug/mL	L	DUPLICATE_RESULT	TCD	Se	6.90E+01	
AP106	Selenium	3/1/93	B0B2C0	1	0.062	ug/mL	L	DUPLICATE_RESULT	TCD	Se	6.20E+01	
AP106	Selenium	3/1/93	B0B2C0	1	0.062	ug/mL	L	PRIMARY_RESULT	TCD	Se	6.20E+01	
AP102	Se	2/11/93		0.956764	0.047365	ppm	U		RAW	Se	4.53E+01	
AP103	Selenium	11/1/91	B0BC21	1	0.02	PPM	L	DUPLICATE_RESULT	TCD	Se	2.00E+01	
AP103	Selenium	11/1/91	B0BC21	1	0.02	PPM	L	DUPLICATE_RESULT	TCD	Se	2.00E+01	
AP103	Selenium	11/1/91	B0BC21	1	0.02	PPM	L	PRIMARY_RESULT	TCD	Se	2.00E+01	
AP103	Selenium	11/1/91	B0BC21	1	0.02	PPM	L	PRIMARY_RESULT	TCD	Se	2.00E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	DUPLICATE_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	DUPLICATE_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Double-Shell Tank Liquids [Sketch ES-VAL-CC85]
 ASA Value: 2.84E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
aw106	Selenium	12/1/93	B08VS6	1.094	0.01	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+01	
AP103	Selenium	11/1/91	B0BC21	1	0.0071	PPM	L	PRIMARY_RESULT	TCD	Se	7.10E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.0059	PPM	L	PRIMARY_RESULT	TCD	Se	5.90E+00	
aw102	Selenium	12/1/93	B0BC12	1.03	0.005	PPM	L	DUPLICATE_RESULT	TCD	Se	5.15E+00	
aw102	Selenium	12/1/93	B0BC12	1.03	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.15E+00	
aw102	Selenium	12/1/93	B0BC12	1.03	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.15E+00	
aw102	Selenium	12/1/93	B0BC12	1.03	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.15E+00	
aw102	Selenium	12/1/93	B0BC12	1.03	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.15E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+00	
AP103	Selenium	11/1/91	B0BC21	1	0.005	PPM	L	PRIMARY_RESULT	TCD	Se	5.00E+00	
SY102	Se	1/4/89	R-4331	1.02	0.002	ppm	L		RAW	Se	2.04E+00	
aw106	Selenium	12/1/93	B08VS6	1.094	0.001	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+00	
aw106	Selenium	12/1/93	B08VS6	1.094	0.001	PPM	L	PRIMARY_RESULT	TCD	Se	1.09E+00	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Double-Shell Tank Solids [Sketch ES-VAL-CC86]
 ASA Value: 2.37E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
SY102	Se	10/1/88			12.8	g/L	G	Sludge	Wastren	Se	1.28E+07	20
sy101	Selenium	12/1/91	B0B9Z7	1.6	785	ug/g	S	PRIMARY RESULT	TCD	Se	1.26E+06	31
sy101	Selenium	12/1/91	B0B9Z7	1.6	707	ug/g	S	DUPLICATE RESULT	TCD	Se	1.13E+06	31
sy101	Selenium	12/1/91	B0BB62	1.1	636	ug/g	S	PRIMARY RESULT	TCD	Se	7.00E+05	31
sy101	Selenium	12/1/91	B0B9Z7	1.6	239	ug/g	S	PRIMARY RESULT	TCD	Se	3.82E+05	31
sy101	Selenium	12/1/91	B0B9X3	1.6	183	ug/g	S	PRIMARY RESULT	TCD	Se	2.93E+05	31
ASA Value: 2.37E+05 ug/L												
AN103	Se	5/16/90			0.003	M	G		RAW	Se	2.37E+05	*
Minimum Plot Limit: 1.00E+05 ug/L												
AZ102	Se	10/1/90		1.49	0.028	umol/g	I		RAW	Se	3.29E+03	
SY101	Se	8/20/92			0.96	ppm	S		RAW	Se	1.54E+03	
SY101	Se	8/20/92			0.89	ppm	S		RAW	Se	1.42E+03	
sy101	Selenium	12/1/91	B0B282	1.235	1	ug/g	S	DUPLICATE RESULT	TCD	Se	1.24E+03	
sy101	Selenium	12/1/91	B0B282	1.235	1	ug/g	S	DUPLICATE RESULT	TCD	Se	1.24E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.997	ug/g	S	PRIMARY RESULT	TCD	Se	1.23E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.997	ug/g	S	PRIMARY RESULT	TCD	Se	1.23E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.983	ug/g	S	DUPLICATE RESULT	TCD	Se	1.21E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.983	ug/g	S	DUPLICATE RESULT	TCD	Se	1.21E+03	
sy101	Selenium	12/1/91	B0B279	1.306	0.878	ug/g	S	DUPLICATE RESULT	TCD	Se	1.15E+03	
sy101	Selenium	12/1/91	B0B281	1.244	0.915	ug/g	S	PRIMARY RESULT	TCD	Se	1.14E+03	
SY101	Se	8/20/92			0.70	ppm	S		RAW	Se	1.12E+03	
sy101	Selenium	12/1/91	B0B281	1.244	0.9	ug/g	S	PRIMARY RESULT	TCD	Se	1.12E+03	
sy101	Selenium	12/1/91	B0B281	1.244	0.877	ug/g	S	DUPLICATE RESULT	TCD	Se	1.09E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.872	ug/g	S	PRIMARY RESULT	TCD	Se	1.08E+03	
sy101	Selenium	12/1/91	B0B282	1.235	0.872	ug/g	S	PRIMARY RESULT	TCD	Se	1.08E+03	
sy101	Selenium	12/1/91	B0B281	1.244	0.865	ug/g	S	DUPLICATE RESULT	TCD	Se	1.08E+03	
sy101	Selenium	12/1/91	B0B280	1.33	0.766	ug/g	S	DUPLICATE RESULT	TCD	Se	1.02E+03	
sy101	Selenium	12/1/91	B0B279	1.306	0.744	ug/g	S	PRIMARY RESULT	TCD	Se	9.72E+02	
sy101	Selenium	12/1/91	B0B280	1.33	0.652	ug/g	S	PRIMARY RESULT	TCD	Se	8.67E+02	
sy101	Selenium	12/1/91	B0B280	1.33	0.627	ug/g	S	PRIMARY RESULT	TCD	Se	8.34E+02	
sy101	Selenium	12/1/91	B0B279	1.306	0.582	ug/g	S	DUPLICATE RESULT	TCD	Se	7.60E+02	
sy101	Selenium	12/1/91	B0B279	1.306	0.578	ug/g	S	PRIMARY RESULT	TCD	Se	7.55E+02	
sy101	Selenium	12/1/91	B0B280	1.33	0.534	ug/g	S	DUPLICATE RESULT	TCD	Se	7.10E+02	
AP102	Selenium	4/1/93	B0B2M0	1.2	0.469	ug/mL	S	PRIMARY RESULT	TCD	Se	4.69E+02	
AP102	Selenium	4/1/93	B0B2M0	1.2	0.469	ug/mL	S	PRIMARY RESULT	TCD	Se	4.69E+02	

WHC-SD-WM-ER-400, Rev. 0

Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Selenium Double-Shell Tank Solids [Sketch ES-VAL-CC86]
ASA Value: 2.37E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Selenium	4/1/93	BOB2M4	1.2	0.468	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.68E+02	
AP102	Selenium	4/1/93	BOB2M1	1.21	0.464	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.64E+02	
AP102	Selenium	4/1/93	BOB2M0	1.2	0.456	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.56E+02	
AP102	Selenium	4/1/93	BOB2M0	1.2	0.456	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.56E+02	
AP102	Selenium	4/1/93	BOB2M1	1.21	0.456	ug/mL	S	PRIMARY RESULT	TCD	Se	4.56E+02	
AP102	Selenium	4/1/93	BOB2T9	1.2	0.424	ug/mL	S	PRIMARY RESULT	TCD	Se	4.24E+02	
AP102	Selenium	4/1/93	BOB2T9	1.2	0.424	ug/mL	S	PRIMARY RESULT	TCD	Se	4.24E+02	
AP102	Selenium	4/1/93	BOB2M4	1.2	0.422	ug/mL	S	PRIMARY RESULT	TCD	Se	4.22E+02	
AP102	Selenium	4/1/93	BOB2T9	1.2	0.4	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.00E+02	
AP102	Selenium	4/1/93	BOB2T9	1.2	0.4	ug/mL	S	DUPLICATE RESULT	TCD	Se	4.00E+02	
AP102	Selenium	4/1/93	BOB2M2	1.2	0.398	ug/mL	S	PRIMARY RESULT	TCD	Se	3.98E+02	
AP102	Selenium	4/1/93	BOB2M2	1.2	0.398	ug/mL	S	PRIMARY RESULT	TCD	Se	3.98E+02	
AP102	Selenium	4/1/93	BOB2M2	1.2	0.395	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.95E+02	
AP102	Selenium	4/1/93	BOB2M2	1.2	0.395	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.95E+02	
AP102	Selenium	4/1/93	BOB2L7	1.2	0.388	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.88E+02	
AP102	Selenium	4/1/93	BOB2L7	1.2	0.388	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.88E+02	
AP102	Selenium	4/1/93	BOB2M7	1.2	0.384	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.84E+02	
AP102	Selenium	4/1/93	BOB2M7	1.2	0.384	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.84E+02	
AP102	Selenium	4/1/93	BOB2M6	1.21	0.383	ug/mL	S	PRIMARY RESULT	TCD	Se	3.83E+02	
AP102	Selenium	4/1/93	BOB2M3	1.2	0.374	ug/mL	S	PRIMARY RESULT	TCD	Se	3.74E+02	
AP102	Selenium	4/1/93	BOB2M3	1.2	0.374	ug/mL	S	PRIMARY RESULT	TCD	Se	3.74E+02	
AP102	Selenium	4/1/93	BOB2M7	1.2	0.372	ug/mL	S	PRIMARY RESULT	TCD	Se	3.72E+02	
AP102	Selenium	4/1/93	BOB2M7	1.2	0.372	ug/mL	S	PRIMARY RESULT	TCD	Se	3.72E+02	
AP102	Selenium	4/1/93	BOB2M3	1.2	0.369	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.69E+02	
AP102	Selenium	4/1/93	BOB2M3	1.2	0.369	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.69E+02	
AP102	Selenium	4/1/93	BOB2M6	1.21	0.357	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.57E+02	
AP102	Selenium	4/1/93	BOB2N4	1.2	0.351	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.51E+02	
AP102	Selenium	4/1/93	BOB2N4	1.2	0.351	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.51E+02	
AP102	Selenium	4/1/93	BOB2N4	1.2	0.341	ug/mL	S	PRIMARY RESULT	TCD	Se	3.41E+02	
AP102	Selenium	4/1/93	BOB2N4	1.2	0.341	ug/mL	S	PRIMARY RESULT	TCD	Se	3.41E+02	
AP102	Selenium	4/1/93	BOB2L7	1.2	0.34	ug/mL	S	PRIMARY RESULT	TCD	Se	3.40E+02	
AP102	Selenium	4/1/93	BOB2L7	1.2	0.34	ug/mL	S	PRIMARY RESULT	TCD	Se	3.40E+02	
AP102	Selenium	4/1/93	BOB2L8	1.21	0.34	ug/mL	S	PRIMARY RESULT	TCD	Se	3.40E+02	
AP102	Selenium	4/1/93	BOB2L8	1.21	0.34	ug/mL	S	PRIMARY RESULT	TCD	Se	3.40E+02	
AP102	Selenium	4/1/93	BOB2L8	1.21	0.317	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.17E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Selenium Double-Shell Tank Solids [Sketch ES-VAL-CC86]
 ASA Value: 2.37E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AP102	Selenium	4/1/93	B0B2L8	1.21	0.317	ug/mL	S	DUPLICATE RESULT	TCD	Se	3.17E+02	
AP102	Selenium	4/1/93	B0B2L9	1.2	0.312	ug/mL	S	PRIMARY RESULT	TCD	Se	3.12E+02	
AP102	Selenium	4/1/93	B0B2L9	1.2	0.312	ug/mL	S	PRIMARY RESULT	TCD	Se	3.12E+02	
AP102	Selenium	4/1/93	B0B2L9	1.2	0.291	ug/mL	S	DUPLICATE RESULT	TCD	Se	2.91E+02	
AP102	Selenium	4/1/93	B0B2L9	1.2	0.291	ug/mL	S	DUPLICATE RESULT	TCD	Se	2.91E+02	
AP102	Selenium	4/1/93	B0B2M5	1.19	0.264	ug/mL	S	DUPLICATE RESULT	TCD	Se	2.64E+02	
AP102	Selenium	4/1/93	B0B2M5	1.19	0.264	ug/mL	S	DUPLICATE RESULT	TCD	Se	2.64E+02	
AP102	Selenium	4/1/93	B0B2M5	1.19	0.256	ug/mL	S	PRIMARY RESULT	TCD	Se	2.56E+02	
AP102	Selenium	4/1/93	B0B2M5	1.19	0.256	ug/mL	S	PRIMARY RESULT	TCD	Se	2.56E+02	
AN106	Se	2/19/87		1.22	0.182	mg/L	I		RAW	Se	1.82E+02	
AP105	Se	5/10/94		1.336	0.141	ug/mL	I		RAW	Se	1.41E+02	
AN106	Se	2/19/87		1.22	0.0862	mg/L	I		RAW	Se	8.62E+01	
AW101	Se	12/19/91		4.195E-07	0.0862	mg/L	I		RAW	Se	8.62E+01	
AW101	Se	6/28/90	RAT-AW101-1	1.54	4.2E-07	moles/l	I	Composite	Braun	Se	3.31E+01	
AW101	Se	6/28/90			3.13E-05	g/L	R	Slurry	Wastren	Se	3.13E+01	

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Double-Shell Tank Liquids [Sketch ES-VAL-CC87]

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ASA Value: 1.05E+03 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AY-101	Sr				5.82E+01	g-moles	L		TRAC	Sr	1.65E+03	4
ASA Value: 1.05E+03 ug/L												
AZ101	Sr	9/1/89		1.2	1.00E-05	mmol/g	P		RAW	Sr	1.05E+03	*
AY102	Sr	7/21/88	NL1296	1.106	1.00E-05	M	L		RAW	Sr	8.76E+02	
AY102	Sr	9/30/88			1.00E-05	M	L		RAW	Sr	8.76E+02	
AZ-101	Sr				1.79E+01	g-moles	L		TRAC	Sr	5.20E+02	
SY-103	Sr				1.09E+01	g-moles	L		TRAC	Sr	4.64E+02	
AY102	Sr	7/21/88	NL1296	1.106	3.00E-06	M	L		RAW	Sr	2.63E+02	
AY102	Sr	9/30/88			3.00E-06	M	L		RAW	Sr	2.63E+02	
SY-102	Sr				6.04E+00	g-moles	L		TRAC	Sr	2.48E+02	
AY102	Sr	6/30/88			2.28E-04	g/L	P	Supernatant	Wastren	Sr	2.28E+02	
AY102	Sr	2/12/90		1	2.60E-06	M	P	1st analysis	RAW	Sr	2.28E+02	
AY102	Sr	7/21/88	NL1296	1.106	2.60E-06	M	P		RAW	Sr	2.28E+02	
AY102	Sr	9/30/88		1	2.60E-06	M	P		RAW	Sr	2.28E+02	
AZ101	Sr	5/1/89			2.14E-04	g/L	P	Supernatant	Wastren	Sr	2.14E+02	
AZ102	Sr	8/1/89			2.07E-04	g/L	P	Supernatant	Wastren	Sr	2.07E+02	
AW-106	Sr				3.30E+00	g-moles	L		TRAC	Sr	1.42E+02	
SY-101	Sr				5.60E+00	g-moles	L		TRAC	Sr	1.15E+02	
SY102	Sr	10/1/88			6.84E-05	g/L	P	Supernatant	Wastren	Sr	6.84E+01	
AY-102	Sr				4.74E-02	g-moles	L		TRAC	Sr	4.83E+00	
AZ-102	Sr				8.39E-02	g-moles	L		TRAC	Sr	2.11E+00	
AW-103	Sr				8.92E-10	g-moles	L		TRAC	Sr	2.15E-08	
AZ101	Sr	5/1/89		1.24	2.00E-03	umol/g	P	Core 2	RAW	Sr	2.17E+02	
AZ102	Sr	10/1/90			2.00E-03	umol/g	P		RAW	Sr	1.93E+02	
AZ102	Sr	9/1/93			2.00E-03	umol/g	P		RAW	Sr	1.93E+02	
AY102	Sr	2/1/90		1	1.80E-01	mg/L	L		RAW	Sr	1.80E+02	
AY102	Sr	2/12/90		1	1.60E-06	M	P	2nd analysis	RAW	Sr	1.40E+02	
AY102	Sr	7/21/88	NL1296	1.106	1.60E-06	M	P		RAW	Sr	1.40E+02	
SY102	Sr	6/30/89		1.52	6.00E-07	mmol/g	P		RAW	Sr	7.99E+01	
AN101	Sr	3/27/85	T-2832		2.0E-07	M	P		RAW	Sr	1.75E+01	
AZ101	Sr	1/10/86			6.09E-05	ppm	P		RAW	Sr	6.70E-02	
AN107	Sr	3/6/85	T-AN107-1B		0.000074	moles/l	P	Supernate	Braun	Sr	6.48E+03	
AY102	Sr	2/1/90	T-AY102-	1	2.6E-06	moles/l	P	Supernate	Braun	Sr	2.28E+02	
AZ101	Sr	9/1/89	T-AZ101-	1.2	0.00001	mmol/gm	P	Supernate	Braun	Sr	1.05E+03	
AZ101	Sr	9/1/90	T-AZ101-	1.22	0.002	umol/gm	P	Supernate	Braun	Sr	2.14E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Double-Shell Tank Liquids [Sketch ES-VAL-CC87]
 ASA Value: 1.05E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
SY102	Sr	10/1/88	02-SY-1-2		Value	Unit	P	Supernate	Braun	Sr	5.78E+01	
Minimum Plot Limit: 1.00E+01 ug/L												

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Tank Waste Source Term Inventory Validation
WHC Accelerated Safety Analysis (ASA) Chemical Analytes
Strontium Double-Shell Tank Solids [Sketch ES-VAL-CC88]

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ASA Value: 1.41E+06 ug/L

Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AZ101	SrO	9/1/89			1.50E-01	wt %	S	core #1 Washed Solids	RAW	Sr	2.03E+06	14
ASA Value: 1.41E+06 ug/L												
AZ101	Sr	5/1/89		1.84	8.73E+00	umol/g	S	Core 2	RAW	Sr	1.41E+06	*
AY102	Sr	9/30/88			9.80E-03	mmol/g	S		RAW	Sr	1.37E+06	
AY102	Sr	9/30/88		1.4	9.00E-03	mM/g	I		RAW	Sr	1.26E+06	
AZ101	Sr	5/1/89			1.24E+00	g/L	G	Sludge	Wastren	Sr	1.24E+06	
AZ101	Sr	9/1/90	RAT-AZ101-5B	1.62	8.73	umol/gm	I	Composite	Braun	Sr	1.24E+06	
AY102	Sr	2/12/90	RAT-AY102-1B	1.4	0.009	mmol/gm	I	Composite	Braun	Sr	1.10E+06	
AY102	Sr	2/12/90		1.4	9.00E-03	mmol/g	S	1st analysis	RAW	Sr	1.10E+06	
AY102	Sr	6/30/88			1.10E+00	g/L	I	Composite	Wastren	Sr	1.10E+06	
AY102	Sr	2/1/90		1.4	7.36E+02	mg/kg	S		RAW	Sr	1.03E+06	
AY102	Sr	2/12/90		1.4	7.70E-03	mmol/g	S	2nd analysis	RAW	Sr	9.44E+05	
AY102	Sr	7/21/88	PNL12966	1.106	9.40E-03	mmol/g	S		RAW	Sr	9.11E+05	
AY102	Sr	7/21/88	PNL12966	1.106	9.00E-03	mmol/g	I		RAW	Sr	8.72E+05	
AY102	Sr	7/21/88	PNL12966	1.106	9.80E-03	M	S		RAW	Sr	8.58E+05	
AY102	Sr	7/21/88	PNL12966	1.106	7.70E-03	mmol/g	I		RAW	Sr	7.46E+05	
AZ101	Sr	9/1/89	RAT-AZ101-4B	1.7	0.004	mmol/gm	S	Supernate/Solids	Braun	Sr	5.96E+05	
AZ101	Sr	9/1/89		1.7	4.00E-03	mmol/g	S		RAW	Sr	5.96E+05	
AZ102	Sr	10/1/90			3.73E+00	umol/g	S		RAW	Sr	5.22E+05	
AZ102	Sr	9/1/93			3.73E+00	umol/g	S		RAW	Sr	5.22E+05	
AZ102	Sr	8/1/89			4.87E-01	g/L	G	Sludge	Wastren	Sr	4.87E+05	
AZ102	Sr	9/1/93			3.00E+00	umol/g	S	L1	RAW	Sr	4.20E+05	
AZ102	Sr	9/1/93			3.00E+00	umol/g	S	L4	RAW	Sr	4.20E+05	
AZ101	Sr	5/1/89		1.14	3.58E+00	umol/g	S	Core 2	RAW	Sr	3.58E+05	
AZ102	Sr	9/1/93			2.10E+00	umol/g	S	L2	RAW	Sr	2.94E+05	
SY102	Sr	1/25/90	102SY3T4S		2.00E-03	mmol/g	S		RAW	Sr	2.80E+05	
SY102	Sr	6/30/89		1.42	2.00E-03	mmol/g	S		RAW	Sr	2.49E+05	
SY102	Sr	2/22/91			1.49E+02	ppm	S	9M	RAW	Sr	2.38E+05	
AZ101	Sr	2/11/91			1.14E-02	wt %	S	Core 3	RAW	Sr	1.82E+05	
SY102	Sr	3/23/89			1.10E-01	mgm/gm	S		RAW	Sr	1.76E+05	
SY102	Sr	2/22/91			1.08E+02	ppm	S	12M	RAW	Sr	1.73E+05	
AZ102	Sr	9/1/93			1.10E+00	umol/g	S	L3	RAW	Sr	1.54E+05	
AZ102	Sr	9/1/93			9.00E-01	umol/g	S	Washed Solids	RAW	Sr	1.26E+05	
AZ102	Sr	11/5/85	RAT-AZ102-2B	1.4	0.00138	moles/l	S	Solids	Braun	Sr	1.21E+05	
AZ101	Sr	9/1/89		1.04	1.22E-03	mmol/g	S		RAW	Sr	1.11E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Strontium Double-Shell Tank Solids [Sketch ES-VAL-CC88]
 ASA Value: 1.41E+06 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
SY102	Sr	2/22/91			6.15E+01	ppm	S	3M	RAW	Sr	9.84E+04	
AZ102	Sr	10/1/90		1.11	9.00E-01	umol/g	S		RAW	Sr	8.75E+04	
AY101	Sr	7/20/88	8371		8.00E-04	M	S		RAW	Sr	7.01E+04	
AW105	Sr	2/24/87	T-7946	1.36	0.000776	moles/l	I	Composite	Braun	Sr	6.80E+04	
AW105	Sr	2/24/87	7946	1.365	7.76E-04	mol/l	G	Sludge	RAW	Sr	6.80E+04	
AZ101	Sr	2/11/91			2.80E-03	wt %	S	Core 3	RAW	Sr	4.48E+04	
SY102	Sr	2/22/91			2.59E+01	ppm	S	6M	RAW	Sr	4.14E+04	
AW103	Sr	1/23/90	RAT-AW103-1	1.75	0.00002	gm/gm	S	Solids	Braun	Sr	3.50E+04	
AW103	Sr	1/23/90			3.50E-02	g/L	G	Sludge	Wastren	Sr	3.50E+04	
AW103	Sr	1/23/90	RAT-AW103-1C		0.00002	gm/gm	S	Solids	Braun	Sr	3.20E+04	
SY102	Sr	10/1/88	102-SY-4B	1.8	0.0002	mmol/gm	G	Sludge	Braun	Sr	3.15E+04	
SY102	Sr	6/30/89		1.8	2.00E-04	mmol/g	S		RAW	Sr	3.15E+04	
SY102	Sr	10/1/88			3.15E-02	g/L	G	Sludge	Wastren	Sr	3.15E+04	
AW105	Sr	2/24/87	T-7942	1.41	0.000129	moles/l	I	Composite	Braun	Sr	1.13E+04	
AW105	Sr	2/24/87	RAT-AW105-1	1.3	0.000129	moles/l	G	Sludge/Composite	Braun	Sr	1.13E+04	
AW105	Sr	2/24/87	7942	1.57	1.29E-04	mol/l	G	Sludge	RAW	Sr	1.13E+04	
AW105	Sr	2/24/87			1.13E-02	g/L	G	Sludge	Wastren	Sr	1.13E+04	
AN102	Sr	3/14/85			1.02E-02	g/L	G	Sludge	Wastren	Sr	1.02E+04	
AW105	Sr	2/24/87	7940	1.37	1.14E-04	mol/l	G	Sludge	RAW	Sr	9.99E+03	
AN102	Sr	3/14/85	R-3640		0.00058	wt.%	S	Solids	Braun	Sr	9.28E+03	
AW105	Sr	2/24/87	T-7941	1.34	0.0000918	moles/l	I	Composite	Braun	Sr	8.04E+03	
AW105	Sr	2/24/87	7941	1.4	9.18E-05	mol/l	G	Sludge	RAW	Sr	8.04E+03	
SY102	Sr	2/22/91			7.22E+00	ppm	S	12M	RAW	Sr	7.94E+03	
SY102	Sr	2/22/91			6.73E+00	ppm	S	3M	RAW	Sr	7.40E+03	
SY102	Sr	2/22/91			6.41E+00	ppm	S	6M	RAW	Sr	7.05E+03	
SY102	Sr	2/22/91			6.06E+00	ppm	S	9M	RAW	Sr	6.67E+03	
AW105	Sr	2/24/87	7939	1.245	6.73E-05	mol/l	G	Sludge	RAW	Sr	5.90E+03	
AZ101	Sr	4/8/86			4.20E-03	g/l	S		RAW	Sr	4.20E+03	
AW105	Sr	2/24/87	T-7937	1.17	0.0000401	moles/l	I	Composite	Braun	Sr	3.51E+03	
AW105	Sr	2/24/87	7937	1.235	4.01E-05	mol/l	G	Sludge	RAW	Sr	3.51E+03	
Minimum Plot Limit: 1.00E+03 ug/L												
AZ101	Sr	4/8/86			4.20E-04	g/l	R		RAW	Sr	4.20E+02	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Tellurium Double-Shell Tank Liquids [Sketch ES-VAL-CC89]
 ASA Value: 2.69E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
Preliminary ASA Value: 3.3E+03 ug/L											33	
ASA Value: 2.69E+03 ug/L												
AZ101	Te	5/1/89		1.24	0.017	umol/g	P	Core 2	RAW	Te	2.69E+03	*
AZ101	Te	5/1/89			0.00265	g/L	P	Supernatant	Wastren	Te	2.65E+03	
AZ101	Te	9/1/90	RAT-AZ101-5A	1.22	0.017	umol/gm	P	Supernate	Braun	Te	2.65E+03	
AZ102	Te	10/1/90			0.018	umol/g	P		RAW	Te	2.53E+03	
AZ102	Te	9/1/93			0.018	umol/g	P		RAW	Te	2.53E+03	
AZ102	Te	8/1/89			0.00217	g/L	P	Supernatant	Wastren	Te	2.17E+03	
AY102	Te	7/21/88	PNL12966	1.106	2.4E-06	M	L		RAW	Te	3.06E+02	
AY102	Te	9/30/88			2.4E-06	M	L		RAW	Te	3.06E+02	
AY102	Te	9/30/88		1	2E-06	M	P		RAW	Te	2.55E+02	
Minimum Plot Limit: 1.00E+01 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Tellurium Double-Shell Tank Solids [Sketch ES-VAL-CC90]
 ASA Value: 9.3E+05 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 9.3E + 05 ug/L												
AZ101	Te	5/1/89		1.84	3.96	umol/g	S	Core 2	RAW	Te	9.30E + 05	*
AZ101	Te	5/1/89			0.819	g/L	G	Sludge	Wastren	Te	8.19E + 05	
AZ101	Te	9/1/90	RAT-AZ101-5B	1.62	3.96	umol/gm	I	Composite	Braun	Te	8.19E + 05	
AY102	Te	9/30/88			0.0039	mmol/g	S		RAW	Te	7.96E + 05	
AY102	Te	6/30/88			0.715	g/L	I	Composite	Wastren	Te	7.15E + 05	
AY102	Te	9/30/88		1.4	0.004	mM/g	I		RAW	Te	7.15E + 05	
AY102	Te	7/21/88	PNL12966	1.106	0.004	mmol/g	I		RAW	Te	5.65E + 05	
AY102	Te	7/21/88	PNL12966	1.106	0.0039	M	S		RAW	Te	4.98E + 05	
AZ102	Te	9/1/93			2.3	umol/g	S	L2	RAW	Te	4.70E + 05	
AY102	Te	7/21/88	PNL12966	1.106	0.003	mmol/g	S		RAW	Te	4.23E + 05	
AZ102	Te	9/1/93			1.36	umol/g	S	Washed Solids	RAW	Te	2.78E + 05	
AZ102	Te	10/1/90		1.11	1.36	umol/g	S		RAW	Te	1.93E + 05	
AW105	Te	2/24/87	T-7946	1.36	0.00107	moles/l	I	Composite	Braun	Te	1.37E + 05	
AW105	Te	2/24/87	7946	1.365	0.00107	mol/l	G	Sludge	RAW	Te	1.37E + 05	
AW105	Te	2/24/87	T-7942	1.41	0.00044	moles/l	I	Composite	Braun	Te	5.64E + 04	
AW105	Te	2/24/87	7942	1.57	0.00044	mol/l	G	Sludge	RAW	Te	5.64E + 04	
AW105	Te	2/24/87	RAT-AW105-1	1.3	0.00013	moles/l	G	Sludge/Composite	Braun	Te	1.63E + 04	
AW105	Te	2/24/87			0.0163	g/L	G	Sludge	Wastren	Te	1.63E + 04	
AZ101	Te	5/1/89			0.007	umol/g	I	Core 2	RAW	Te	1.43E + 03	
Minimum Plot Limit: 1.00E + 03 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Double-Shell Tank Liquids [Sketch ES-VAL-CC91]
 ASA Value: 3.66E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
AZ102	TI	8/1/89			0.0393	g/L	P	Supernatant	Wastren	TI	3.93E+04	33
Preliminary ASA Value: 3.9E+04 ug/L												33
ASA Value: 3.66E+04 ug/L												
AZ102	TI	10/1/90			0.163	umol/g	P		RAW	TI	3.66E+04	
AZ102	TI	9/1/93			0.163	umol/g	P		RAW	TI	3.66E+04	
Minimum Plot Limit: 1.00E+02 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Thallium Double-Shell Tank Solids [Sketch ES-VAL-CC92]
 ASA Value: N/A

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All of the sample results are "less than" values. There is no quantitative information to base a concentration on.

Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value Unit		Code	Sample State	Source	Analyte	ug/L	ID
AW103	TI	1/23/90	RAT-AW103-1C		0.00965	gm/gm	S	Solids	Braun	TI	1.54E + 07	20
Preliminary ASA Value: 1.3E + 07 ug/L												20
Minimum Plot Limit: 1.00E + 05 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Liquids [Sketch ES-VAL-CC93]
 ASA Value: 1.05E+07 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			ID
Tank	Reported Chemical	Date	Sample #	Density	Value	Unit	Code	Sample State	Source	Analyte	ug/L	
AW103	U	1/1/85	3937	1.33	54000	gm/l	F	Filtrate	Braun	U	5.40E+10	13
ASA Value: 1.05E+07 ug/L												
AY102	U	7/21/88	PNL12966	1.106	4.40E-02	M	L		RAW	U	1.05E+07	*
AY102	U	7/21/88	PNL12966	1.106	3.80E-02	M	L		RAW	U	9.05E+06	
AY102	U	9/30/88			3.80E-02	M	L		RAW	U	9.05E+06	
AY102	U	9/30/88			3.80E-02	M	L		RAW	U	9.05E+06	
AW103	U	11/30/84	2750		2.50E-02	M	P	Supernatant	RAW	U	5.95E+06	
AY102	U	7/21/88	PNL12966	1.106	1.40E-02	M	L		RAW	U	3.33E+06	
AY101	U	10/3/79	1810		2000	ppm	P	Supernate	Braun	U	2.20E+06	
AY101	U	10/3/79	1811		2000	ppm	P	Supernate	Braun	U	2.20E+06	
AY102	U	2/12/90		1	3.50E-03	M	P	2nd analysis	RAW	U	8.33E+05	
AY102	U	7/21/88	PNL12966	1.106	3.50E-03	M	P		RAW	U	8.33E+05	
AY102	U	6/30/88			8.33E-01	g/L	P	Supernatant	Wastren	U	8.33E+05	
AY102	U	2/1/90	RAT-AY102-1A	1	0.0035	moles/l	P	Supernate	Braun	U	8.33E+05	
Preliminary ASA Value: 8.30E+05 ug/L												
AY102	U	2/12/90		1	3.30E-03	M	P	1st analysis	RAW	U	7.86E+05	
AY102	U	7/21/88	PNL12966	1.106	3.30E-03	M	P		RAW	U	7.86E+05	
AY102	U	2/1/90		1	7.85E+02	mg/L	L		RAW	U	7.85E+05	
AZ101	U	1/10/86			3.11E-01	g/L	P		RAW	U	3.11E+05	
AY102	U	7/21/88	PNL12966	1.106	1.20E-03	M	L		RAW	U	2.86E+05	
AY102	U	9/30/88			1.20E-03	M	L		RAW	U	2.86E+05	
AY102	U	9/30/88			1.20E-03	M	L		RAW	U	2.86E+05	
AN107	U	2/28/85	R3638	1.35	1.72E-01	g/l	P		RAW	U	1.72E+05	
AN107	U	2/28/85	R-3638	1.35	0.172	gm/l	L	Liquor	Braun	U	1.72E+05	
AZ102	U	11/5/85	RAT-AZ102-2A	1.09	0.156	gm/l	P	Supernate	Braun	U	1.56E+05	
AN107	U	2/28/85	R3637	1.41	1.07E-01	g/l	P		RAW	U	1.07E+05	
AN107	U	2/28/85	R-3637	1.41	0.107	gm/l	P	Supernate	Braun	U	1.07E+05	
AY102	U	9/30/88		1	3.30E-04	M	P		RAW	U	7.86E+04	
AY102	U	9/30/88			3.30E-04	M	P		RAW	U	7.86E+04	
AZ102	U	10/1/87	RAT-AZ102-3		0.05	gm/l	P	Supernate	Braun	U	5.00E+04	
aw102	Uranium	12/1/93	B08WF7	1.1	4.76E-02	g/l		PRIMARY RESULT	TCD	U	4.76E+04	
AW102	U	11/18/92	R1627		4.76E-02	g/L	U	Unknown	RAW	U	4.76E+04	
aw102	Uranium	12/1/93	B08WF7	1.1	4.71E-02	g/l		DUPLICATE RESULT	TCD	U	4.71E+04	
aw102	Uranium	12/1/93	B08WF6	1.1	4.38E-02	g/l		DUPLICATE RESULT	TCD	U	4.38E+04	
aw102	Uranium	12/1/93	B08WF6	1.1	4.16E-02	g/l		PRIMARY RESULT	TCD	U	4.16E+04	
AW102	U	11/18/92	R1626		4.16E-02	g/L	U	Unknown	RAW	U	4.16E+04	
AZ102	U	2/4/85	R-3700	1.11	0.0295	gm/l	P	Supernate	Braun	U	2.95E+04	
AZ102	U	2/4/85	R-3699	1.11	0.0278	gm/l	P	Supernate	Braun	U	2.78E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Liquids [Sketch ES-VAL-CC93]
 ASA Value: 1.05E+07 ug/L

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Tank Waste Characterization Sample Information											
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte Information	
					Value	Unit				Analyte	ug/L
AW103	U	8/1/84	2750		0.025	gm/l	P	Supernate	Braun	U	2.50E+04
AN102	U	2/28/85	R-3639	1.39	2.47E-02	g/l	P		RAW	U	2.47E+04
AY101	U	8/30/78	1353	1.39	2.34E-02	g/L	P		RAW	U	2.34E+04
AY101	U	2/28/85	R-3641	1.11	2.33E-02	g/L	P		RAW	U	2.33E+04
AY101	U	2/28/85	R-3641	1.11	0.0233	gm/l	P	Supernate	Braun	U	2.33E+04
AW105	U	6/10/85	R-4036	0.974	1.75E-02	g/l	L	Clear	RAW	U	1.75E+04
AW105	U	1/1/85	R-4037	0.974	0.0175	gm/l	L	Liquor	Braun	U	1.75E+04
AW105	U	1/1/85	R-4036	0.974	0.0175	gm/l	L	Liquor	Braun	U	1.75E+04
AY101	U	2/28/85	R-3642	1.12	1.61E-02	g/L	P		RAW	U	1.61E+04
AY101	U	3/14/85		1.12	1.61E+01	mg/L	L		RAW	U	1.61E+04
AN106	U	2/19/87	R-2456	1.223	0.015	gm/l	P	Supernate	Braun	U	1.50E+04
AN106	U	2/1/90			1.44E-02	g/L	P	Supernatant	Wastren	U	1.44E+04
aw106	Uranium	12/1/93	B08VS6	1.094	9.54E-03	g/l		DUPLICATE RESULT	TCD	U	9.54E+03
SY102	U	11/1/88		1.18	4.00E-05	M	L	3 + Upper 4	RAW	U	9.52E+03
aw106	Uranium	12/1/93	B08VS6	1.094	9.40E-03	g/l		PRIMARY RESULT	TCD	U	9.40E+03
AW103	U	6/1/84	202107A		0.00889	gm/l	P	Supernate	Braun	U	8.89E+03
AW103	U	6/15/85	RAT-AW103-2B		0.00889	gm/l	P	Supernate	Braun	U	8.89E+03
SY102	U	1/4/89	R-4332	1.18	8.42E-03	g/L	L		RAW	U	8.42E+03
AW103	U	1/1/85	4013	1.13	0.008	gm/l	F	Filtrate	Braun	U	8.00E+03
AW105	U	5/1/86	RAT-AW105-2A	1.079	6.92	ugm/gm	P	Supernate	Braun	U	7.47E+03
SY102	U	1/4/89	R-4331	1.02	7.32E-03	g/L	L		RAW	U	7.32E+03
SY102	U	11/1/88		1.02	3.00E-05	M	L	1 + 2 Liquid	RAW	U	7.14E+03
AZ101	U	9/1/89		1.2	2.50E-05	mmol/g	P		RAW	U	7.14E+03
AZ101	U	9/1/89	RAT-AZ101-4A	1.2	0.000025	mmol/gm	P	Supernate	Braun	U	7.14E+03
AW103	U	2/27/87	7931		6.8	ugm/ml	P	Supernate	Braun	U	6.80E+03
AW103	U	1/23/90			6.24E-03	g/L	P	Supernatant	Wastren	U	6.24E+03
AW103	U	8/7/85			6.20E-03	g/l	P	Supernate	RAW	U	6.20E+03
AW103	U	1/1/85	3936	1.39	0.0062	gm/l	F	Filtrate	Braun	U	6.20E+03
AZ101	U	9/13/85		1.17	5.90E-03	g/l	P		RAW	U	5.90E+03
AZ101	U	9/13/85	RAT-AZ101-3A	1.17	0.0059	gm/l	P	Supernate	Braun	U	5.90E+03
AW103	U	1/23/90	RAT-AW103-1B		4.8E-06	gm/gm	P	Supernate	Braun	U	5.28E+03
AZ101	U	9/1/89		1.2	1.75E-05	mmol/g	L		RAW	U	5.00E+03
AZ101	U	11/18/85	RAT-AZ101-1A		0.0049	gm/l	P	Supernate	Braun	U	4.90E+03
aw102	Uranium	12/1/93	B0BC12	1.03	4.62E-03	g/l		PRIMARY RESULT	TCD	U	4.62E+03
AW102	U	11/18/92	R9417		4.62E-03	g/L	U	Unknown	RAW	U	4.62E+03
AP102	Uranium	4/1/93	BOB2T9	1.19	4.55E+00	ug/mL		PRIMARY RESULT	TCD	U	4.55E+03
AP102	Uranium	4/1/93	BOB2T9	1.19	4.55E+00	ug/mL		PRIMARY RESULT	TCD	U	4.55E+03
AP102	Uranium	4/1/93	BOB2T9	1.19	4.50E+00	ug/mL		DUPLICATE RESULT	TCD	U	4.50E+03
AP102	Uranium	4/1/93	BOB2T9	1.19	4.50E+00	ug/mL		DUPLICATE RESULT	TCD	U	4.50E+03

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Liquids [Sketch ES-VAL-CC93]
 ASA Value: 1.05E+07 ug/L

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Tank Waste Characterization Sample Information									Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value		Code	Sample State	Source	Analyte	ug/L
						Unit					ID
aw102	Uranium	12/1/93	BOBC12	1.03	4.49E-03	g/l		PRIMARY RESULT	TCD	U	4.49E+03
AW102	U	11/18/92	R9415		4.49E-03	g/L	U	Unknown	RAW	U	4.49E+03
aw102	Uranium	12/1/93	BOBC12	1.03	4.26E-03	g/l		DUPLICATE RESULT	TCD	U	4.26E+03
AP102	Uranium	4/1/93	BOB2M9	1.2	4.05E+00	ug/mL		DUPLICATE RESULT	TCD	U	4.05E+03
aw102	Uranium	12/1/93	BOBC12	1.03	3.87E-03	g/l		PRIMARY RESULT	TCD	U	3.87E+03
AW102	U	11/18/92	R9418		3.87E-03	g/L	U	Unknown	RAW	U	3.87E+03
sy101	Uranium	12/1/91	BOB9X3	1.267	3.00E+00	MG/L		DUPLICATE RESULT	TCD	U	3.80E+03
sy101	Uranium	12/1/91	BOB9X3	1.267	3.00E+00	MG/L		PRIMARY RESULT	TCD	U	3.80E+03
sy101	Uranium	12/1/91	BOB9X3	1.267	2.50E+00	MG/L		PRIMARY RESULT	TCD	U	3.17E+03
sy101	Uranium	12/1/91	BOB281	1.24	1.32E-03	ug/g		PRIMARY RESULT	TCD	U	3.03E+03
sy101	Uranium	12/1/91	BOB281	1.24	1.03E-03	ug/g		DUPLICATE RESULT	TCD	U	2.36E+03
sy101	Uranium	12/1/91	BOB282	1.24	1.05E-03	ug/g		DUPLICATE RESULT	TCD	U	2.11E+03
aw102	Uranium	12/1/93	BOBC12	1.03	1.88E-03	g/l		PRIMARY RESULT	TCD	U	1.88E+03
AW102	U	11/18/92	R9416		1.88E-03	g/L	U	Unknown	RAW	U	1.88E+03
sy101	Uranium	12/1/91	BOB280	1.33	1.20E-03	ug/g		PRIMARY RESULT	TCD	U	1.68E+03
sy101	Uranium	12/1/91	BOB280	1.33	1.00E-03	ug/g		DUPLICATE RESULT	TCD	U	1.62E+03
sy101	Uranium	12/1/91	BOB281	1.24	9.89E-04	ug/g		PRIMARY RESULT	TCD	U	1.55E+03
sy101	Uranium	12/1/91	BOB282	1.24	7.38E-04	ug/g		PRIMARY RESULT	TCD	U	1.48E+03
sy101	Uranium	12/1/91	BOB282	1.24	7.38E-04	ug/g		DUPLICATE RESULT	TCD	U	1.46E+03
sy101	Uranium	12/1/91	BOB281	1.24	9.34E-04	ug/g		DUPLICATE RESULT	TCD	U	1.46E+03
AN101	U	3/27/85	T-2832		1.44E-03	g/l	P		RAW	U	1.44E+03
sy101	Uranium	12/1/91	BOB280	1.33	1.00E-03	ug/g		DUPLICATE RESULT	TCD	U	1.40E+03
sy101	Uranium	12/1/91	BOB279	1.305	9.34E-04	ug/g		PRIMARY RESULT	TCD	U	1.39E+03
sy101	Uranium	12/1/91	BOB279	1.305	9.34E-04	ug/g		PRIMARY RESULT	TCD	U	1.39E+03
sy101	Uranium	12/1/91	BOB279	1.305	8.63E-04	ug/g		PRIMARY RESULT	TCD	U	1.32E+03
sy101	Uranium	12/1/91	BOB279	1.305	8.63E-04	ug/g		PRIMARY RESULT	TCD	U	1.32E+03
sy101	Uranium	12/1/91	BOB280	1.33	8.01E-04	ug/g		PRIMARY RESULT	TCD	U	1.30E+03
SY102	U	5/2/89		1.57	1.24E-03	g/L	L		RAW	U	1.24E+03
sy101	Uranium	12/1/91	BOB282	1.24	6.24E-04	ug/g		PRIMARY RESULT	TCD	U	1.24E+03
sy101	Uranium	12/1/91	BOB279	1.305	8.01E-04	ug/g		DUPLICATE RESULT	TCD	U	1.22E+03
sy101	Uranium	12/1/91	BOB279	1.305	8.01E-04	ug/g		DUPLICATE RESULT	TCD	U	1.22E+03
sy101	Uranium	12/1/91	BOB279	1.305	7.48E-04	ug/g		DUPLICATE RESULT	TCD	U	1.11E+03
sy101	Uranium	12/1/91	BOB279	1.305	7.48E-04	ug/g		DUPLICATE RESULT	TCD	U	1.11E+03
sy101	Uranium	12/1/91	BOB9Z7	1.16	8.96E-01	MG/L		PRIMARY RESULT	TCD	U	1.04E+03
Minimum Plot Limit: 1.00E+03 ug/L											
sy101	Uranium	12/1/91	BOB9Z7	1.1	8.96E-01	MG/L		PRIMARY RESULT	TCD	U	8.96E+02
sy101	Uranium	12/1/91	BOB9Z7	1.16	7.47E-01	MG/L		PRIMARY RESULT	TCD	U	8.67E+02
sy101	Uranium	12/1/91	BOB9Z7	1.1	7.47E-01	MG/L		PRIMARY RESULT	TCD	U	7.47E+02
sy101	Uranium	12/1/91	BOB9Z7	1.16	6.24E-01	MG/L		DUPLICATE RESULT	TCD	U	7.24E+02

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Liquids [Sketch ES-VAL-CC93]
 ASA Value: 1.05E+07 ug/L

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Tank Waste Characterization Sample Information									Analyte Information			ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
sy101	Uranium	12/1/91	BOB9Z7	1.1	6.24E-01	MG/L		DUPLICATE RESULT	TCD	U	6.24E+02	
AP101	Uranium	7/1/93	BOB2H0	0.986	5.44E-01	ug/mL		PRIMARY RESULT	TCD	U	5.44E+02	
AP101	Uranium	7/1/93	BOB2G9	0.988	5.22E-01	ug/mL		PRIMARY RESULT	TCD	U	5.22E+02	
AP101	Uranium	7/1/93	BOB2H1	0.985	4.86E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.86E+02	
AP101	Uranium	7/1/93	BOB2H1	0.985	4.86E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.86E+02	
AP101	Uranium	7/1/93	BOB2H1	0.985	4.86E-01	ug/mL		PRIMARY RESULT	TCD	U	4.86E+02	
AP101	Uranium	7/1/93	BOB2H1	0.985	4.86E-01	ug/mL		PRIMARY RESULT	TCD	U	4.86E+02	
AP101	Uranium	7/1/93	BOB2H0	0.986	4.77E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.77E+02	
AP101	Uranium	7/1/93	BOB2G9	0.988	4.58E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.58E+02	
sy101	Uranium	12/1/91	BOBB23	1.144	4.00E-01	MG/L		DUPLICATE RESULT	TCD	U	4.58E+02	
sy101	Uranium	12/1/91	BOBB23	1.144	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.58E+02	
sy101	Uranium	12/1/91	BOBB23	1.144	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.58E+02	
AP101	Uranium	7/1/93	BOB2G7	0.987	4.55E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.55E+02	
AP101	Uranium	7/1/93	BOB2G7	0.987	4.55E-01	ug/mL		PRIMARY RESULT	TCD	U	4.55E+02	
AP101	Uranium	7/1/93	BOB2G8	0.983	4.38E-01	ug/mL		DUPLICATE RESULT	TCD	U	4.38E+02	
sy101	Uranium	12/1/91	BOBB41	1.072	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.29E+02	
AP101	Uranium	7/1/93	BOB2G8	0.983	4.05E-01	ug/mL		PRIMARY RESULT	TCD	U	4.05E+02	
sy101	Uranium	12/1/91	BOBB23	1.1	4.00E-01	MG/L		DUPLICATE RESULT	TCD	U	4.00E+02	
sy101	Uranium	12/1/91	BOBB23	1.1	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.00E+02	
sy101	Uranium	12/1/91	BOBB23	1.1	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.00E+02	
sy101	Uranium	12/1/91	BOBB41	1.1	4.00E-01	MG/L		PRIMARY RESULT	TCD	U	4.00E+02	
AP104	U	4/22/87	T-8530		0.000244	gm/l	P	Supernate	Braun	U	2.44E+02	
AP101	Uranium	7/1/93	BOB2G7	0.987	2.35E-01	ug/mL		DUPLICATE RESULT	TCD	U	2.35E+02	
AP102	U	12/31/88		1.01	0.22	ppm	U		RAW	U	2.22E+02	
AP104	U	3/1/88			2.20E-04	g/L	P	Supernatant	Wastren	U	2.20E+02	
AP104	U	3/1/88	RAT-AP104-1A	1.03	0.00022	gm/l	P	Supernate	Braun	U	2.20E+02	
AP104	U	7/10/87	T-513		2.09E-04	g/l	P		RAW	U	2.09E+02	
AP104	U	7/10/87	T-513		0.000209	gm/l	P	Supernate	Braun	U	2.09E+02	
AP102	U	2/11/93		0.956764	0.208404	ppm	U		RAW	U	1.99E+02	
AP101	Uranium	7/1/93	BOB2G7	0.987	1.88E-01	ug/mL		PRIMARY RESULT	TCD	U	1.88E+02	
AZ101	U	9/13/85		1.17	1.06E-04	g/l	L		RAW	U	1.06E+02	
AP101	Uranium	7/1/93	BOB2G8	0.983	8.28E-02	ug/mL		PRIMARY RESULT	TCD	U	8.28E+01	
AP101	Uranium	7/1/93	BOB2G8	0.983	8.05E-02	ug/mL		DUPLICATE RESULT	TCD	U	8.05E+01	
SY102	U	3/12/93	R3353	1.064	6.77E-06	ug/mL	O	Bottom	RAW	U	6.77E-03	
SY102	U	3/12/93	R3354	1.002	6.67E-06	ug/mL	L	no solids	RAW	U	6.67E-03	
SY102	U	3/12/93	R3355	1	6.12E-06	ug/mL	L	no solids	RAW	U	6.12E-03	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Solids [Sketch ES-VAL-CC94]
 ASA Value: 4.4E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
AZ101	U3O8	9/1/89			4.01E+00	wt %	S	core #1 Washed Solids	RAW	U	5.44E+07	34
ASA Value: 4.4E+07 ug/L												
AW103	U	1/23/90			4.41E+01	g/L	G	Sludge	Wastren	U	4.41E+07	*
AW103	U	1/23/90	RAT-AW103-1	1.75	0.0252	gm/gm	S	Solids	Braun	U	4.41E+07	*
aw105	Uranium	5/1/90	B08W87	1.4275	3.00E+01	MG/G		PRIMARY RESULT	TCD	U	4.28E+07	
AW105	U	2/24/87	T-7946	1.36	40.8	gm/l	I	Composite	Braun	U	4.08E+07	
AY101	U	3/14/85			2.26E+04	mg/kg	S		RAW	U	3.62E+07	
AY102	U	9/30/88			6.50E-02	mmol/g	I		RAW	U	2.48E+07	
AY102	U	9/30/88			5.80E-02	mmol/g	S		RAW	U	2.21E+07	
AY102	U	9/30/88			5.80E-02	mmol/g	S		RAW	U	2.21E+07	
AY102	U	6/30/88			2.17E+01	g/L	I	Composite	Wastren	U	2.17E+07	
AY102	U	2/12/90		1.4	6.50E-02	mmol/g	S	1st analysis	RAW	U	2.17E+07	
AY102	U	9/30/88		1.4	6.50E-02	mM/g	S		RAW	U	2.17E+07	
AY102	U	2/12/90	RAT-AY102-1B	1.4	0.065	mmol/gm	I	Composite	Braun	U	2.17E+07	
AY102	U	2/1/90		1.4	1.48E+04	mg/kg	S		RAW	U	2.07E+07	
AY102	U	2/12/90		1.4	5.90E-02	mmol/g	S	2nd analysis	RAW	U	1.97E+07	
AZ101	U	3/11/88	T-3494		1.83E+01	g/L	S		RAW	U	1.83E+07	
AZ101	U	10/1/87	RAT-AZ101-6B		18.33	gm/l	G	Sludge/Composite	Braun	U	1.83E+07	
AY102	U	7/21/88	PNL12966	1.106	6.50E-02	mmol/g	I		RAW	U	1.71E+07	
AW103	U	2/27/87	7935	1.54	10600	ugm/gm	S	Solids	Braun	U	1.63E+07	
AY102	U	7/21/88	PNL12966	1.106	5.90E-02	mmol/g	I		RAW	U	1.55E+07	
AY102	U	7/21/88	PNL12966	1.106	5.80E-02	mmol/g	S		RAW	U	1.53E+07	
AY102	U	7/21/88	PNL12966	1.106	5.80E-02	M	S		RAW	U	1.38E+07	
AW103	U	1/23/90	RAT-AW103-1C		0.00785	gm/gm	S	Solids	Braun	U	1.26E+07	
AW103	U	2/27/87	7934		7600	ugm/gm	S	Solids	Braun	U	1.22E+07	
AW103	U	2/27/87	7932	1.47	7200	ugm/gm	S	Solids	Braun	U	1.06E+07	
AZ101	U	4/8/86			9.40E+00	g/L	S		RAW	U	9.40E+06	
AW105	U	2/24/87			9.30E+00	g/L	G	Sludge	Wastren	U	9.30E+06	
AW105	U	2/24/87	RAT-AW105-1	1.3	9.3	gm/l	G	Sludge/Composite	Braun	U	9.30E+06	
aw105	Uranium	5/1/90	B08W87	1.4275	6.40E+00	MG/G		PRIMARY RESULT	TCD	U	9.14E+06	
AW105	U	2/24/87	T-7942	1.41	9.02	gm/l	I	Composite	Braun	U	9.02E+06	
aw105	Uranium	5/1/90	B08W82	1.36	6.00E+00	MG/G		PRIMARY RESULT	TCD	U	8.16E+06	
AW105	U	2/24/87	T-7941	1.34	8.04	gm/l	I	Composite	Braun	U	8.04E+06	
aw105	Uranium	5/1/90	B08W79	1.235	6.50E+00	MG/G		PRIMARY RESULT	TCD	U	8.03E+06	
AW105	U	5/1/86	RAT-AW105-2B	1.2	6580	ugm/gm	G	Sludge	Braun	U	7.90E+06	
AW105	U	2/24/87	T-7937	1.17	7.6	gm/l	I	Composite	Braun	U	7.60E+06	
AW103	U	2/27/87	7933		4700	ugm/gm	S	Solids	Braun	U	7.52E+06	
AW103	U	2/27/87	7929	1.38	5300	ugm/gm	S	Solids	Braun	U	7.31E+06	
AZ101	U	9/13/85	RAT-AZ101-3B		7.21	gm/l	S	Supernate/Solids	Braun	U	7.21E+06	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Solids [Sketch ES-VAL-CC94]
 ASA Value: 4.4E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AW105	U	2/24/87	T-7940	1.43	6.72	gm/l	I	Composite	Braun	U	6.72E+06	
aw105	Uranium	5/1/90	B08W81	1.4	4.70E+00	MG/G		PRIMARY RESULT	TCD	U	6.58E+06	
AW103	U	2/27/87	7930	1.4	4600	ugm/gm	S	Solids	Braun	U	6.44E+06	
AZ102	U	11/5/85	RAT-AZ102-2B	1.4	5.99	gm/l	S	Solids	Braun	U	5.99E+06	
AW103	U	2/27/87	7928	1.28	4400	ugm/gm	S	Solids	Braun	U	5.63E+06	
aw105	Uranium	5/1/90	B08W80	1.235	4.30E+00	MG/G		PRIMARY RESULT	TCD	U	5.31E+06	
AW105	U	2/24/87	T-7939	1.18	5.07	gm/l	I	Composite	Braun	U	5.07E+06	
AW103	U	2/27/87	7927	1.22	3100	ugm/gm	S	Solids	Braun	U	3.78E+06	
SY102	U	6/30/89		1.8	5.46E-03	mmol/g	S		RAW	U	2.34E+06	
SY102	U	1/25/90	102SY4B	1.8	5.46E-03	mmol/g	S		RAW	U	2.34E+06	
SY102	U	10/1/88			2.34E+00	g/L	G	Sludge	Wastren	U	2.34E+06	
SY102	U	10/1/88	102-SY-4B	1.8	0.00546	mmol/gm	G	Sludge	Braun	U	2.34E+06	
AW103	U	6/1/84	202107B		2.1	gm/l	S	Solids	Braun	U	2.10E+06	
sy101	Uranium	12/1/91	B0BBB5	1.6	1.23E+03	ug/g		DUPLICATE RESULT	TCD	U	1.97E+06	
AW103	U	6/15/85	RAT-AW103-2A		1.71	gm/l	S	Solids	Braun	U	1.71E+06	
AZ102	U	11/5/85	RAT-AZ102-2C	1.26	1.64	gm/l	Y	Slurry	Braun	U	1.64E+06	
sy101	Uranium	12/1/91	B0BBB5	1.6	1.02E+03	ug/g		PRIMARY RESULT	TCD	U	1.63E+06	
AN102	U	3/14/85			1.58E+00	g/L	G	Sludge	Wastren	U	1.58E+06	
AN102	U	3/14/85	R-3640		0.09	wt. %	S	Solids	Braun	U	1.44E+06	
AZ101	U	9/1/89		1.04	5.34E-03	mmol/g	S		RAW	U	1.32E+06	
AW103	U	2/27/87	7936	1.51	870	ugm/gm	S	Solids	Braun	U	1.31E+06	
AW101	U	12/19/91		9.390E-04	0.00412	M	I		RAW	U	9.81E+05	
AW103	U	8/1/84	2836B	1.517	0.968	gm/l	S	Solids	Braun	U	9.68E+05	
AZ101	U	4/8/86			9.40E-01	g/L	R		RAW	U	9.40E+05	
sy101	Uranium	12/1/91	B0BB41	1.6	5.00E+02	ug/g		DUPLICATE RESULT	TCD	U	8.00E+05	
sy101	Uranium	12/1/91	B0BB41	1.6	5.00E+02	ug/g		PRIMARY RESULT	TCD	U	8.00E+05	
AW103	U	8/1/84	2837	1.426	0.76	gm/l	S	Solids	Braun	U	7.60E+05	
sy101	Uranium	12/1/91	B0B9X3	1.6	4.40E+02	ug/g		PRIMARY RESULT	TCD	U	7.04E+05	
sy101	Uranium	12/1/91	B0B9X3	1.6	4.20E+02	ug/g		DUPLICATE RESULT	TCD	U	6.72E+05	
AW103	U	8/1/84	2838A	1.402	0.622	gm/l	S	Solids	Braun	U	6.22E+05	
AY101	U	8/30/78	1353		5.00E-01	g/L	S		RAW	U	5.00E+05	
sy101	Uranium	12/1/91	B0BBB5	1.6	2.41E+02	ug/g		PRIMARY RESULT	TCD	U	3.86E+05	
sy101	Uranium	12/1/91	B0BBB5	1.6	2.26E+02	ug/g		DUPLICATE RESULT	TCD	U	3.62E+05	
AW103	U	8/1/84	2838B	1.65	0.272	gm/l	S	Solids	Braun	U	2.72E+05	
AW103	U	2/27/87	7938	1.56	160	ugm/gm	S	Solids	Braun	U	2.50E+05	
AW101	U	6/28/90			2.24E-01	g/L	R	Slurry	Wastren	U	2.24E+05	
AW101	U	6/28/90	RAT-AW101-1	1.54	0.000939	moles/l	I	Composite	Braun	U	2.23E+05	
AW103	U	8/1/84	2750B	1.415	0.221	gm/l	S	Solids	Braun	U	2.21E+05	
AY101	U	8/30/78	1353		2.00E-01	g/L	S		RAW	U	2.00E+05	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Solids [Sketch ES-VAL-CC94]
 ASA Value: 4.4E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	ID
sy101	Uranium	12/1/91	BOB280	1.33	1.50E-04	ug/g		PRIMARY RESULT	TCD	U	2.00E+05	
sy101	Uranium	12/1/91	BOB280	1.33	1.35E-04	ug/g		DUPLICATE RESULT	TCD	U	1.80E+05	
sy101	Uranium	12/1/91	BOB280	1.33	1.34E-04	ug/g		DUPLICATE RESULT	TCD	U	1.78E+05	
sy101	Uranium	12/1/91	BOB279	1.306	1.34E-04	ug/g		DUPLICATE RESULT	TCD	U	1.75E+05	
sy101	Uranium	12/1/91	BOB280	1.33	1.22E-04	ug/g		PRIMARY RESULT	TCD	U	1.62E+05	
sy101	Uranium	12/1/91	BOB9X3	1.6	1.01E+02	ug/g		PRIMARY RESULT	TCD	U	1.62E+05	
sy101	Uranium	12/1/91	BOB279	1.306	1.19E-04	ug/g		PRIMARY RESULT	TCD	U	1.55E+05	
sy101	Uranium	12/1/91	BOBB62	1.1	1.26E+02	ug/g		PRIMARY RESULT	TCD	U	1.39E+05	
sy101	Uranium	12/1/91	BOBBX7	1.6	8.65E+01	ug/g		PRIMARY RESULT	TCD	U	1.38E+05	
sy101	Uranium	12/1/91	BOBBD5	1.6	8.60E+01	ug/g		DUPLICATE RESULT	TCD	U	1.38E+05	
sy101	Uranium	12/1/91	BOBBX7	1.6	8.55E+01	ug/g		DUPLICATE RESULT	TCD	U	1.37E+05	
sy101	Uranium	12/1/91	BOB282	1.235	1.06E-04	ug/g		PRIMARY RESULT	TCD	U	1.31E+05	
sy101	Uranium	12/1/91	BOB282	1.235	1.06E-04	ug/g		PRIMARY RESULT	TCD	U	1.31E+05	
sy101	Uranium	12/1/91	BOB282	1.235	1.04E-04	ug/g		DUPLICATE RESULT	TCD	U	1.28E+05	
sy101	Uranium	12/1/91	BOB282	1.235	1.04E-04	ug/g		DUPLICATE RESULT	TCD	U	1.28E+05	
sy101	Uranium	12/1/91	BOBBC7	1.6	7.90E+01	ug/g		PRIMARY RESULT	TCD	U	1.26E+05	
sy101	Uranium	12/1/91	BOB281	1.244	1.00E-04	ug/g		DUPLICATE RESULT	TCD	U	1.24E+05	
sy101	Uranium	12/1/91	BOB281	1.244	1.00E-04	ug/g		DUPLICATE RESULT	TCD	U	1.24E+05	
sy101	Uranium	12/1/91	BOB281	1.244	1.00E-04	ug/g		PRIMARY RESULT	TCD	U	1.24E+05	
sy101	Uranium	12/1/91	BOB281	1.244	1.00E-04	ug/g		PRIMARY RESULT	TCD	U	1.24E+05	
AN103	U	2/1/90			1.23E-01	g/L	R	Slurry	Wastren	U	1.23E+05	
sy101	Uranium	12/1/91	BOB279	1.306	9.21E-05	ug/g		DUPLICATE RESULT	TCD	U	1.20E+05	
sy101	Uranium	12/1/91	BOB282	1.235	9.38E-05	ug/g		DUPLICATE RESULT	TCD	U	1.16E+05	
sy101	Uranium	12/1/91	BOB282	1.235	9.38E-05	ug/g		DUPLICATE RESULT	TCD	U	1.16E+05	
sy101	Uranium	12/1/91	BOB282	1.235	9.37E-05	ug/g		PRIMARY RESULT	TCD	U	1.16E+05	
sy101	Uranium	12/1/91	BOB282	1.235	9.37E-05	ug/g		PRIMARY RESULT	TCD	U	1.16E+05	
sy101	Uranium	12/1/91	BOBBC7	1.6	7.20E+01	ug/g		DUPLICATE RESULT	TCD	U	1.15E+05	
sy101	Uranium	12/1/91	BOB279	1.306	8.25E-05	ug/g		PRIMARY RESULT	TCD	U	1.08E+05	
Minimum Plot Limit: 1.00E+05 ug/L												
sy101	Uranium	12/1/91	BOBBX7	1.6	6.00E+01	ug/g		DUPLICATE RESULT	TCD	U	9.60E+04	
sy101	Uranium	12/1/91	BOBBX7	1.6	5.90E+01	ug/g		PRIMARY RESULT	TCD	U	9.44E+04	
sy101	Uranium	12/1/91	BOBBD5	1.6	5.80E+01	ug/g		PRIMARY RESULT	TCD	U	9.28E+04	
sy101	Uranium	12/1/91	BOBB62	1.1	7.90E+01	ug/g		DUPLICATE RESULT	TCD	U	8.69E+04	
sy101	Uranium	12/1/91	BOBB62	1.1	7.90E+01	ug/g		PRIMARY RESULT	TCD	U	8.69E+04	
AZ101	U	9/13/85		1.17	7.20E-02	g/l	S		RAW	U	7.20E+04	
sy101	Uranium	12/1/91	BOB9Z7	1.6	3.30E+01	ug/g		DUPLICATE RESULT	TCD	U	5.28E+04	
sy101	Uranium	12/1/91	BOB9Z7	1.6	3.30E+01	ug/g		PRIMARY RESULT	TCD	U	5.28E+04	
sy101	Uranium	12/1/91	BOB9Z7	1.6	2.90E+01	ug/g		PRIMARY RESULT	TCD	U	4.64E+04	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Uranium Double-Shell Tank Solids [Sketch ES-VAL-CC94]
 ASA Value: 4.4E+07 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported		Code	Sample State	Source	Analyte	ug/L	
					Value	Unit						
AP105	U	5/10/94		1.336	4.22E+01	ug/mL	I		RAW	U	4.22E+04	
sy101	Uranium	12/1/91	BOBB41	1.6	1.17E+01	ug/g		PRIMARY RESULT	TCD	U	1.87E+04	
AY101	U	2/28/85	R-3642	1.12	0.0161	gm/l	S	Supernate/Solids	Braun	U	1.61E+04	
sy101	Uranium	12/1/91	BOBB23	1.6	1.00E+01	ug/g		DUPLICATE RESULT	TCD	U	1.60E+04	
sy101	Uranium	12/1/91	BOBB23	1.6	1.00E+01	ug/g		PRIMARY RESULT	TCD	U	1.60E+04	
AZ101	U	9/1/89		1.7	2.85E-05	mmol/g	S		RAW	U	1.15E+04	
AZ101	U	9/1/89	RAT-AZ101-4B	1.7	0.0000285	mmol/gm	S	Supernate/Solids	Braun	U	1.15E+04	
AP102	Uranium	4/1/93	BOB2T9	1.2	7.09E+00	ug/mL		PRIMARY RESULT	TCD	U	7.09E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	7.09E+00	ug/mL		PRIMARY RESULT	TCD	U	7.09E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	6.31E+00	ug/mL		DUPLICATE RESULT	TCD	U	6.31E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	6.31E+00	ug/mL		DUPLICATE RESULT	TCD	U	6.31E+03	
AN106	U	2/19/87		1.22	0.00412	g/L	I		RAW	U	4.12E+03	
AN106	U	2/19/87		1.22	0.004	g/L	I		RAW	U	4.00E+03	
AP106	U	2/14/94		9.96E-01	3.71E+00	ug/mL	I		RAW	U	3.71E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	2.58E+00	ug/mL		PRIMARY RESULT	TCD	U	2.58E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	2.58E+00	ug/mL		PRIMARY RESULT	TCD	U	2.58E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	2.15E+00	ug/mL		DUPLICATE RESULT	TCD	U	2.15E+03	
AP102	Uranium	4/1/93	BOB2T9	1.2	2.15E+00	ug/mL		DUPLICATE RESULT	TCD	U	2.15E+03	
AP104	U	3/7/88		1.03	2.2E-04	g/l	I		RAW	U	2.20E+02	
sy101	Uranium	12/1/91	BOBBQ6	1.6	1.10E-04	ug/g		PRIMARY RESULT	TCD	U	1.76E-01	
sy101	Uranium	12/1/91	BOBBR2	1.6	1.10E-04	ug/g		PRIMARY RESULT	TCD	U	1.76E-01	

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Double-Shell Tank Liquids [Sketch ES-VAL-CC95]
 ASA Value: 2.1E+03 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 2.1E+03 ug/L												
AZ102	V	8/1/89			0.0021	g/L	P	Supernatant	Wastren	V	2.10E+03	*
AZ102	V	10/1/90			0.035	umol/g	P		RAW	V	1.96E+03	
AZ102	V	9/1/93			0.035	umol/g	P		RAW	V	1.96E+03	
AZ101	V	5/1/89		1.24	0.014	umol/g	P	Core 2	RAW	V	8.84E+02	
AZ101	V	9/1/90	RAT-AZ101-5A	1.22	0.014	umol/gm	P	Supernate	Braun	V	8.70E+02	
AZ101	V	5/1/89			0.00087	g/L	P	Supernatant	Wastren	V	8.70E+02	
AP102	V	2/11/93		0.956764	0.284187	ppm	U		RAW	V	2.72E+02	
Minimum Plot Limit: 1.00E+00 ug/L												

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Tank Waste Source Term Inventory Validation
 WHC Accelerated Safety Analysis (ASA) Chemical Analytes
 Vanadium Double-Shell Tank Solids [Sketch ES-VAL-CC96]
 ASA Value: 4.07E+04 ug/L

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Tank Waste Characterization Sample Information										Analyte Information		ID
Tank	Reported Chemical	Date	Sample #	Density	Reported Value	Unit	Code	Sample State	Source	Analyte	ug/L	
ASA Value: 4.07E+04 ug/L												
AZ102	V	9/1/93			5.00E-01	umol/g	S	L2	RAW	V	4.07E+04	*
AZ102	V	9/1/93			3.70E-01	umol/g	S	Washed Solids	RAW	V	3.01E+04	
AW103	V	1/23/90			2.63E-02	g/L	G	Sludge	Wastren	V	2.63E+04	
AW103	V	1/23/90	RAT-AW103-1	1.75	1.5E-05	gm/gm	S	Solids	Braun	V	2.63E+04	
AZ102	V	10/1/90		1.11	3.70E-01	umol/g	S		RAW	V	2.09E+04	
AW103	V	1/23/90	RAT-AW103-1C		0.00001	gm/gm	S	Solids	Braun	V	1.60E+04	
Preliminary ASA Value: 1.5E+04 ug/L												
AZ102	V	9/1/93			7.00E-03	umol/g	S		RAW	V	5.70E+02	
AZ102	V	10/1/90		1.49	7.00E-03	umol/g	I		RAW	V	5.31E+02	
AZ101	V	5/1/89			4.00E-03	umol/g	I	Core 2	RAW	V	3.26E+02	
Minimum Plot Limit: 1.00E+01 ug/L												

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