ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **633323**Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. Franciska H. Steen, Production Planning and Control, T6-06, 372-2495	4. USQ Required? ☐ Yes ☒ No	5. Date 08/27/96
12a. Modification Work ☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date
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A-7900-013-3 (05/96) GEF096

Final Report for Tank 241-U-102, Cores 143 and 144

Franciska H. Steen
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: ECN-633323 UC: 2070
Org Code: 75725 Charge Code: MD378
B&R Code: EW 3120074 Total Pages: 2095

Key Words: Final Report, Final, Tank 241-U-102, Tank U-102, U-102, U Farm, Push Mode, Push, Core 143, Core 144

Abstract: N/A

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Release Approval 8/30/96
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ANALYTICAL SERVICES

FINAL REPORT FOR TANK
241-U-102, CORES 143 AND 144

Project Coordinator: FRANCISKA H. STEEN

Prepared for the U.S. Department of Energy
Office of Environmental Restoration
and Waste Management

by

Westinghouse Hanford Company
Box 1970
Richland, Washington

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Part II consists of pages 2-1 through 2-262 and pages 2-7.1 and pages 2-2, 2-6, 2-15, 2-32, 2-52, and 2-71 were intentionally left blank.

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NARRATIVE

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TANK 241-U-102, CORES 143 AND 144, ANALYTICAL RESULTS FOR THE FINAL REPORT

This document is the analytical report for tank 241-U-102 push mode core segments collected between April 16, 1996 and May 6, 1996 and received by the 222-S Laboratory between April 17, 1996 and May 8, 1996. The segments were subsampled and analyzed in accordance with the *Tank 241-U-102 Push Mode Core Sampling and Analysis Plan* (TSAP) (Hu, 1996), *Compatibility Grab Sampling and Analysis Plan* (TSAP) (Hu, 1996), the *Historical Model Evaluation Data Requirements* (Historical DQO) (Simpson, et al., 1995), *Data Quality Objectives for Tank Farms Waste Compatibility Program* (Fowler, 1995), and the *Safety Screening Data Quality Objective* (DQO) (Dukelow, et al., 1995). The analytical results are included in Table 1.

Sample Handling

Attachment 1 is a cross reference to relate the tank farm identification numbers to the 222-S Laboratory LABCORE/LIMS sample numbers. These diagrams show the make-up of the core composites and secondary analyses requested. These diagrams and any changes made supersede the diagrams presented in Part II of this document. Sample handling and appearance information for the subsegments can be found in Rev. 0 of this document.

Two of the subsamples submitted for Differential Scanning Calorimetry (DSC) exceeded the safety screening notification limit of 480 Joules/gram. Cyanide analysis was requested for these samples, the results are included in this report. Reactive Systems Screening Tool (RSST) analysis was requested for the sample exhibiting the highest exotherm (Core 143 segment 2 lower half solids), results will be included in a revision to this document.

Two core composites were made, one for each core: 143 and 144. The core composite worksheets are included in this document.

Sampling crews were unsuccessful in obtaining grab samples from 241-U-102. The drainable liquid portion from the first segment of cores 143 and 144 was also submitted for compatibility analyses.

A field blank was provided to the 222-S Laboratory with Core 144. It underwent the same analysis as the drainable liquid.

A sample of the hydrostatic head fluid (HHF) lithium bromide solution was provided with core 144 and was analyzed by Ion Chromatography (IC) and Inductively Coupled Plasma (ICP).

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Liner liquid (109.4 grams) was recovered from Core 144 Segment 5. The TSAP (Hu, 1996) does not address analyses for liner liquid. As per agreement with the TWRS representative, no analyses were performed and the sample was archived for possible future analyses

Analytical Results Summary

The data summary report (Table 1) compiles the analytical results that satisfy all applicable DQOs.

Inorganic Analyses

Differential Scanning Calorimetry (DSC)

The DSC analyses were performed on the core composite subsamples and the solid subsamples requiring reruns. The analyses were performed in duplicate on direct subsamples. The exothermic energy based on dry weight of subsample was calculated for all subsamples. The average of the TGA results for each subsample was used in the dry weight correction for that subsample. The results for all DSC analyses and the raw data for the core composite subsamples and reruns are included in this report.

High RPDs (>20%) were reported for the solid core composite samples. The RPDs can be attributed to the heterogenous nature of the samples. Subsamples for Core 144, segment 2 upper half solids (S96T002646) and segment 5 lower half solids (S96T002778), had reruns performed because of high RPDs and differences in the appearance between the thermograms of the sample and duplicate. The rerun results showed a slight improvement in RPDs for sample S96T002778, no further reruns were requested. The rerun for sample S96T002646 resulted in a RPD of 13.6 percent. The standard recoveries for this analysis were within the required limits.

Thermogravimetric Analysis (TGA)

The TGA analyses were performed in duplicate on direct subsamples. Typically results were determined by summing the weight loss steps which occurred below 200°C; weight loss steps above this were not used to determine the result. The results for all TGA analyses and the raw data for the core composite subsamples and reruns are included in this report.

Subsamples for Core 143, segment 4 upper half solids (S96T002344) and Core 144, segment 2 upper half solids (S96T002646), segment 3 upper half solids (S96T002647) and segment 3 lower half solids (S96T002636), had reruns performed because of the high RPDs and differences in the appearance between the thermograms of the sample and duplicate. The reruns resulted in RPDs of less than 13.0 percent. The results can be found in Table 1. The standard recoveries and RPDs for this analysis were within the required limits.

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Sp.G.-Specific Gravity/Bulk Density

Bulk density analyses were performed on direct solid subsamples. The results and raw data for all subsamples are reported in this revision. Specific gravity analyses were performed on the liquid subsamples. The results are provided in Table 1. The raw data are included in this revision. There are no exceptions to the quality control parameters stated in the TSAP for these samples.

Inductively Coupled Plasma Spectrophotometry (ICP)

The liquid subsamples were prepared for analysis by an acid adjustment of the direct subsample. This is indicated by a "D" in the aliquot class (A#) column in Table 1. Solid subsamples were prepared for analysis by performing both an acid digest as indicated by an "A" and a fusion as indicated by an "F".

Only the QC for the required analytes (Al, Ca, Cr, Fe, K, Li, Mn, Na, P, S, Si and U) were reviewed for this report. Other "opportunistic" analytes are included but were not reviewed for adherence to QC parameters. RPDs which exceed 20 percent are the result of sample inhomogeneity and reruns would not significantly improve the results. Table 2 shows a comparison of the result of the sample with that of the serial dilution for those required analytes that had a spike recovery outside of the 75 percent to 125 percent range as set by the Quality Assurance Plan for the 222-S Laboratories (LabQAP). Serial dilutions are performed by diluting a sample by five. The results from the serial dilution may be found in the raw data and are signified by an "_L" at the end of the sample number. For acceptable performance the percent difference between the serial dilution and the undiluted results must be ≤ 10 percent. Two samples had serial dilutions greater than ten percent. This inaccuracy can be attributed to the low concentration of the analyte with respect to the detection limit.

Occasional preparation blanks showed results above the detection level. The levels of these in the preparation blanks are inconsequential when compared to the result for the sample. This contamination does not impact sample data quality.

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Table 2. ICP Serial Dilution Raw Results for Tank 241-U-102

Sample ID	Analyte	Sample Result Undiluted (ug/g)	Serial Dilution Result (ug/g)	% Difference
S96T002323	S	3.51E+03	3.59E+03	2.4
S96T002448	Na	5.30E+02	5.48E+02	3.4
S96T002449	Na	4.62E+02	4.73E+02	2.4
S96T002468	Na	9.28E+02	9.90E+02	6.6
S96T002469	Al	2.85E+01	2.93E+01	2.9
S96T002469	S	1.16E+01	1.21E+01	4.1
S96T002471	Al	6.64E+01	7.02E+01	5.7
S96T002471	Cr	1.08E+01	1.14E+01	5.6
S96T002471	P	2.42E+01	2.45E+01	1.4
S96T002471	Na	9.70E+02	1.02E+03	4.7
S96T002471	S	2.64E+01	2.81E+01	6.3
S96T002474	Al	6.42E+01	6.77E+01	5.5
S96T002474	P	8.93E+00	9.65E+00	8.0
S96T002474	Na	9.83E+02	1.04E+03	5.5
S96T002474	S	4.53E+01	4.81E+01	6.2
S96T002511	Li	2.61E+03	2.52E+03	3.2
S96T002519	Cr	5.00E+00	5.14E+00	2.9
S96T002519	K	5.60E+00	4.82E+00	13.9
S96T002519	S	8.05E+00	8.42E+00	4.5
S96T002549	Al	1.70E+04	1.73E+04	1.6
S96T002549	Na	2.32E+05	2.36E+05	2.0
S96T002650	Al	7.13E+01	7.13E+01	0.0
S96T002650	Fe	1.46E+01	1.46E+01	0.0
S96T002650	P	7.86E+01	7.86E+01	0.0
S96T002650	Na	8.47E+02	8.47E+02	0.0
S96T002651	Al	4.91E+01	4.93E+01	0.3
S96T002651	Na	9.44E+02	1.00E+03	6.0
S96T002798	Na	5.68E+02	1.16E+02	79.6
S96T002800	K	8.94E+00	8.26E+00	7.7
S96T002800	Na	9.59E+02	9.96E+02	3.9
S96T002800	S	2.31E+01	2.38E+01	2.7
S96T002804	P	9.83E+00	1.06E+01	8.2
S96T002804	Na	1.00E+03	1.05E+03	4.9
S96T002804	S	2.28E+01	2.33E+01	2.2
S96T003675	Na	5.09E+02	5.09E+02	0.1
S96T003676	Al	8.64E+01	8.94E+01	3.5
S96T003676	Cr	1.11E+01	1.16E+01	4.1
S96T003676	Na	1.02E+03	1.05E+03	2.8
S96T003676	S	3.02E+01	3.08E+01	2.0
S96T003680	Na	4.42E+02	4.43E+02	0.2
S96T003682	Al	8.16E+01	8.44E+01	3.4
S96T003682	Cr	1.30E+01	1.36E+01	4.1
S96T003682	Na	9.36E+02	9.63E+02	2.8
S96T003682	S	2.90E+01	2.97E+01	2.3
S96T003686	Al	7.11E+01	7.44E+01	4.7
S96T003686	K	8.79E+00	8.73E+00	0.6
S96T003686	Na	1.18E+03	1.24E+03	4.9
S96T003686	S	1.51E+01	1.59E+01	4.8

$$\% \text{ Difference} = (\text{ABS}(\text{Sample} - \text{Serial})) / \text{Sample} \times 100$$

Ion Chromatography (IC)

The IC analysis was performed on direct subsamples of liquid samples, as indicated by a blank in the A# column in Table 1. The solid subsamples were prepared by performing a water digest. This is indicated with a "W" in the A# column in Table 1.

The standard recoveries for this analysis were within the required limits. High RPDs (> 20%) were reported for 16 of the 31 subsamples submitted for analysis. These high RPDs were attributed to sample inhomogeneity. RPD failures for all analytes were only slightly above the required precision except for phosphate. The results for phosphate were near the detection level of the instrument which resulted in decreased precision. Additional reruns would not significantly improve the results due to the difficulty in obtaining representative samples of the material therefore no reruns were requested. Six subsamples had spike recoveries outside of the 75 percent to 125 percent range on several of the anions. The standard recoveries for this analysis were within the required limits.

Occasional preparation blanks for chloride and nitrate showed results above the detection level. The levels of these analytes in the preparation blank are inconsequential when compared to the result for the sample. This contamination does not impact sample data quality.

TIC/TOC - Total Inorganic/Organic Carbon Persulfate

TIC/TOC by persulfate/coulometry analyses were performed on 27 solid subsamples and the field blank. None of the results exceeded the TOC notification limit of 30,000 $\mu\text{gC/g}$. Low concentrations of TIC and TOC were noted in some preparation blanks, however the levels of contamination are inconsequential when compared to the result of the sample and do not impact sample data quality. The standard recoveries, spike recoveries and RPDs for these analyses were within the required limits.

TIC/TOC - Total Inorganic/Organic Carbon Furnace

TIC/TOC by furnace/coulometry analyses were performed on the two drainable liquid samples. None of the results exceeded the TOC notification limit of 30,000 $\mu\text{gC/mL}$. The standard recoveries, spike recoveries and RPDs for these analyses were within the required limits.

CN - Cyanide

Cyanide was requested as a secondary analysis for the two samples that exceeded the DSC notification limits, S96T002332 and S96T002335. The cyanide by water method is for the determination of total cyanide in samples that contain only soluble cyanide compounds. The cyanide by EDTA addition method was used for insoluble cyanide complexes in the samples

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being analyzed. The cyanide results ranged from 17.7 $\mu\text{g/g}$ to 35.6 $\mu\text{g/g}$. The standard recoveries, spike recoveries and RPDs for these analyses were within the required limits.

pH

The pH analysis was performed on the two drainable liquid samples. The results ranged from 13.01 to 13.27. Results for pH that are greater than 12.5 are suspect and should be considered estimates because the highest calibration buffer available is 12.5 and pH electrode performance degrades at high pH.

OH

The OH analysis was performed on the two drainable liquid samples. The results ranged from $2.04\text{e}+4$ $\mu\text{g/mL}$ to $2.44\text{e}+4$ $\mu\text{g/mL}$. The standard recoveries, spike recoveries and RPDs for these analyses were within the required limits. The standard recoveries and RPDs for this analysis were within the required limits.

Radionuclide Analyses

AT - Total Alpha

Total alpha activity (AT) analysis was performed on direct liquid subsamples. The solid core composite subsamples were prepared for analysis by performing a fusion digest in duplicate. The fusion preparation is indicated with an "F" in the A# column in Table 1. The results and the raw data for all subsamples are included in this revision. The standard recoveries, spike recoveries and RPDs for this analysis were within the required limits.

TB - Total Beta

Total beta activity (TB) was performed on the solid core composite subsamples. The samples were prepared for analysis by performing a fusion digest in duplicate. The fusion preparation is indicated with an "F" in A# column in Table 1. The standard recoveries, spike recoveries and RPDs for this analysis were within the required limits.

⁹⁰Sr - Strontium 90

⁹⁰Sr analysis was performed on the two drainable liquid samples and the solid core composites. The analysis was performed on direct liquid subsamples. The solid core composites were prepared for analysis by performing a fusion digest in duplicate. The fusion preparation is indicated with an "F" in the A# column in Table 1. Several preparation blanks showed results for strontium-90 slightly above the detection level. The levels in the preparation blanks are inconsequential when compared to the results for the samples. This does not impact sample data quality. The standard recoveries and RPDs for this analysis were within the required limits.

GEA - Gamma Energy Analysis

GEA analysis was performed on the two drainable liquid samples and the 27 solid subsamples. The analysis was performed on direct liquid subsamples. The solid samples were prepared for analysis by performing a fusion digest in duplicate. The fusion preparation is indicated with an "F" in the A# column in Table 1. Only the QC for required analytes were considered in this report. Other "opportunistic" analytes are included but were not reviewed for QC.

Actual detection limits for GEA analytes are not currently available. The latest GEA software does not currently report a minimum detectable activity (MDA). If an analyte is reported as "less than", the value reported is the detection limit. The standard recoveries and RPDs for this analysis were within the required limits.

U - Total Uranium

Uranium analysis was performed on the core composite subsamples. The samples were prepared for analysis by performing a fusion digest in duplicate. The fusion preparation is indicated with an "F" in the A# column in Table 1. The standard recoveries, spike recoveries and RPDs for this analysis were within the required limits.

Compatibility Program Concerns

DSC - Differential Scanning Calorimetry - Energetics Decision Rule

For waste compatibility energetics decision concerns, the exotherm/endortherm ratio of the liquid samples is evaluated. This ratio must be less than one (1). This requirement is satisfied for all samples. The actual exotherm and endotherm results and the calculated ratios for those liquids that exhibited exotherms are presented Table 3. The calculation of this ratio is not applicable for samples that did not exhibit exotherms. The data for endotherms and temperatures was obtained from the raw data. The raw data can be found in Rev. 0 of this document. Only the endothermic energy attributed to water loss (near 100 °C) is used on the calculation. The standard recoveries, spike recoveries and RPDs for this analysis were within the required limits.

Specific Gravity (Sp.G.) - Flammable Gas Accumulation Decision Rule

The Sp.G. of the waste is currently used for determination of the potential to cause an accumulation of flammable gases. The flammable gas decision rule requires that the weighted mean Sp.G. not exceed 1.41. The two drainable liquid samples were submitted for Sp.G. analysis. The results ranged from 1.34 to 1.40. The mean Sp.G. = 1.37. This result does not exceed the 1.41 limit to allow waste transfer. The standard recoveries and RPDs for this analysis were within the required limits.

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Plutonium (^{239/240}Pu) - Criticality Decision Rule

^{239/240}Pu concentration was measured for the two drainable liquid samples to evaluate criticality safety for waste transfers. The results for the drainable liquid samples ranged from $7.88\text{e-}4 \mu\text{Ci/mL}$ to $8.78\text{e-}4 \mu\text{Ci/mL}$. These results are below the criticality prevention limit of $0.80 \mu\text{Ci/mL}$ stated in the Compatibility DQO (Fowler, 1996). The standard recoveries and RPDs for this analysis were within the required limits.

Americium (²⁴¹Am) - Criticality Decision Rule

²⁴¹Am analysis was performed on the two drainable liquid samples. The results ranged from $1.69\text{e-}2 \mu\text{Ci/mL}$ to $1.94\text{e-}2 \mu\text{Ci/mL}$. The standard recoveries and RPDs for this analysis were within the required limits.

Table 3

DSC Results for Tank 241-U-102
Waste Compatibility Study

Sample ID		Exothermic Energy (Joules/g)	Temp (* C)	Endothermic Energy (Joules/g)	Temp (* C)	Energy Ratio *
S96T002323						
Core 143 Seg 1	Samp	122.0	326.3	989.1	122.1	0.12
Drainable Liquid	Dup	124.1	330.2	1033.3	119.3	0.12
S98T002549						
Core 144 Seg 1	Samp	112.0	326.1	873.6	119.6	0.13
Drainable Liquid	Dup	146.6	326.1	2023.4	119.5	0.07

Energy Ratio = Exothermic Energy /Endothermic Energy

* - This ratio must be < 1 for Compatibility Energetics

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Procedures

Table 4 lists the analytical procedures used for performing the sample analyses. Abbreviations for analyses are defined in the table notes.

Table 4. Analytical Procedures

Analysis	Sample Portion	Preparation Procedure +	Analysis Procedure
DSC	Solid/Liquid	N/A	LA-514-114 Rev. C-1 LA-514-113 Rev. C-1
TGA	Solid/Liquid	N/A	LA-514-114 Rev. C-1 LA-560-112 Rev. B-1
Bulk Density	Solid	N/A	LO-160-103 Rev. B-0
Sp.G.	Liquid	N/A	LA-510-112 Rev. C-3
CN	Solid	N/A	LA-695-102 Rev. A-0 LA-695-103 Rev. A-0
IC	Solid Liquid	LA-504-101 Rev. E-0 N/A	LA-533-105 Rev. D-1
ICP	Solid Liquid	LA-505-159 Rev. D-0 LA-549-101 Rev. F-0 N/A	LA-505-151 Rev. D-3 LA-505-161 Rev. B-1
OH-	Liquid	N/A	LA-211-102 Rev. C-0
pH	Liquid	N/A	LA-212-106 Rev. A-0
TICTOC	Solid	N/A	LA-342-100 Rev. D-0

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TIC	Liquid	N/A	LA-622-102, Rev. C-0
TOC	Liquid	N/A	LA-344-105 Rev. C-0
AT/TB	Solid Liquid	LA-549-101 Rev. F-0 N/A	LA-508-101 Rev. D-2
GEA	Solid Liquid	LA-549-101 Rev. F-0 N/A	LA-548-121 Rev. E-0
²⁴¹ Am	Liquid	N/A	LA-953-103 Rev. B-0
U	Solid	LA-549-141 Rev. F-0	LA-925-009 Rev. A-1
⁹⁰ Sr	Solid Liquid	LA-549-141 Rev. F-0 N/A	LA-220-101 Rev. D-1
²³⁹ Pu	Liquid	N/A	LA-943-128 Rev. B-0

Abbreviations:

N/A = not applicable (these are direct samples)
 DSC = differential scanning calorimetry
 TGA = thermogravimetric analysis
 Sp.G. = specific gravity
 % Water = percent water by gravimetric analysis
 NH₄⁺ = ammonia (by ion selective electrode (ISE))
 OH⁻ = hydroxide
 IC = ion chromatography
 ICP = inductively coupled plasma
 TOC = total organic carbon
 TIC = total inorganic carbon
 AT = total alpha
 GEA = gamma energy analysis
¹³⁷Cs = cesium 137
⁹⁰Sr = strontium 90
²⁴¹Am = americium 241
^{239/240}Pu = plutonium 239/240
 Cn = cyanide
 U = uranium

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SAMPLE DATA SUMMARY

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Table 1. Data Summary Report
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CORE NUMBER: 143
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002325		Bulk Density of Sample	g/mL	N/A	N/A	1.610			N/A	N/A	5.00e-01	N/A
S961002326		DSC Exotherm Dry Calculated	Joules/g Dry	N/A	N/A	1.18e+02	117.9	117.4	N/A	N/A	N/A	N/A
S961002326		DSC Exotherm on Perkin Elmer	Joules/g	97.35	N/A	49.80	45.40	48.20	N/A	N/A	N/A	N/A
S961002326		% Water by TGA using Mettler	%	98.89	N/A	61.50	60.30	60.90	N/A	N/A	N/A	N/A
S961002326		TIC by Acid/Coulometry	ug/g	98.84	1.100	7.95e+03	8.92e+03	8.44e+03	N/A	N/A	5.000	N/A
S961002326		TIC by Persulfate/Coulometry	ug/g	91.67	5.000	6.95e+03	7.90e+03	7.43e+03	N/A	N/A	5.000	N/A
S961002326		F Silver - ICP-Fusion	ug/g	98.20	<1.00e-02	1.04e+04	<1.91e2	1.08e+04	N/A	N/A	185.0	N/A
S961002326		F Aluminum - ICP-Fusion	ug/g	98.20	<1.00e-02	1.04e+04	<1.91e2	1.08e+04	N/A	N/A	185.0	N/A
S961002326		F Arsenic - ICP-Fusion	ug/g	101.8	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Boron - ICP-Fusion	ug/g	102.2	<5.00e-02	<3.0e+02	<9.5e2	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Barium - ICP-Fusion	ug/g	101.6	<5.00e-02	<3.0e+02	<9.5e2	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Bismuth - ICP-Fusion	ug/g	104.4	<5.00e-03	<93.00	<9.5e2	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Cadmium - ICP-Fusion	ug/g	102.2	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Calcium - ICP-Fusion	ug/g	100.6	<5.00e-03	<93.00	<9.5e2	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Cerium - ICP-Fusion	ug/g	102.2	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Cobalt - ICP-Fusion	ug/g	98.80	<1.00e-02	4.75e+02	<3.82e2	4.80e+02	N/A	N/A	185.0	N/A
S961002326		F Chromium - ICP-Fusion	ug/g	102.0	<1.00e-02	1.86e+02	<1.91e2	1.86e+02	N/A	N/A	185.0	N/A
S961002326		F Copper - ICP-Fusion	ug/g	103.4	<5.00e-02	9.76e+02	<9.5e2	9.76e+02	N/A	N/A	185.0	N/A
S961002326		F Potassium - ICP-Fusion	ug/g	101.6	<5.00e-01	7.08e+06	<9.5e2	9.30e+03	N/A	N/A	185.0	N/A
S961002326		F Lanthanum - ICP-Fusion	ug/g	102.8	<5.00e-02	<9.5e+02	<9.5e2	9.30e+03	N/A	N/A	185.0	N/A
S961002326		F Lithium - ICP-Fusion	ug/g	102.0	<1.00e-02	1.86e+02	<1.91e2	1.86e+02	N/A	N/A	185.0	N/A
S961002326		F Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Manganese - ICP-Fusion	ug/g	100.6	<5.00e-02	2.18e+02	241.0	229.5	N/A	N/A	185.0	N/A
S961002326		F Molybdenum - ICP-Fusion	ug/g	98.80	<1.00e-02	<3.0e+02	<9.5e2	2.38e+03	N/A	N/A	185.0	N/A
S961002326		F Sodium - ICP-Fusion	ug/g	101.2	2.610	2.38e+05	2.37e+05	2.38e+05	N/A	N/A	185.0	N/A
S961002326		F Neodymium - ICP-Fusion	ug/g	109.0	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Nickel - ICP-Fusion	ug/g	100.4	1.82e-01	4.54e+03	2.95e+03	3.74e+03	N/A	N/A	185.0	N/A
S961002326		F Phosphorus - ICP-Fusion	ug/g	102.6	<2.00e-01	1.53e+04	1.51e+04	1.52e+04	N/A	N/A	185.0	N/A
S961002326		F Lead - ICP-Fusion	ug/g	101.0	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Sulfur - ICP-Fusion	ug/g	97.80	<1.00e-01	3.02e+03	2.95e+03	2.98e+03	N/A	N/A	185.0	N/A
S961002326		F Antimony - ICP-Fusion	ug/g	94.60	<1.00e-02	<1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Selenium - ICP-Fusion	ug/g	95.20	<5.00e-02	<9.30e+02	<9.5e2	9.30e+02	N/A	N/A	185.0	N/A
S961002326		F Silicon - ICP-Fusion	ug/g	103.0	<1.00e-01	1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Samarium - ICP-Fusion	ug/g	101.0	<1.00e-02	<1.86e+03	<1.91e3	1.86e+03	N/A	N/A	185.0	N/A
S961002326		F Strontium - ICP-Fusion	ug/g	97.20	<1.00e-02	<1.86e+02	<1.91e2	1.86e+02	N/A	N/A	185.0	N/A
S961002326		F Tantalum - ICP-Fusion	ug/g	101.0	<1.00e-02	<1.86e+02	<1.91e2	1.86e+02	N/A	N/A	185.0	N/A
S961002326		F Thallium - ICP-Fusion	ug/g	98.40	<5.00e-01	<3.72e+03	<3.82e3	3.72e+03	N/A	N/A	185.0	N/A
S961002326		F Uranium - ICP-Fusion	ug/g	95.30	<5.00e-01	<9.30e+03	<9.5e3	9.30e+03	N/A	N/A	185.0	N/A
S961002326		F Vanadium - ICP-Fusion	ug/g	100.6	<1.00e-02	<9.30e+02	<9.5e2	9.30e+02	N/A	N/A	185.0	N/A
S961002326		F Zinc - ICP-Fusion	ug/g	99.60	4.40e-02	7.28e+02	558.0	643.0	N/A	N/A	185.0	N/A
S961002326		F Zirconium - ICP-Fusion	ug/g	99.00	<1.00e-02	<1.86e+02	<1.91e2	1.86e+02	N/A	N/A	185.0	N/A

Sample#	RAP	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%	
S961002438	F	Cobalt-60 by GEA	uCi/g	108.3	< 8.61e-02	< 9.32e-02	< 1.10e-1	n/a	n/a	n/a	9.30e-02	n/a	
S961002438	F	Cesium-137 by GEA	uCi/g	101.9	< 2.23e-01	< 1.23e+02	121.0	122.0	1.64	n/a	n/a	0.880	
S961002438	F	Europium-154 by GEA	uCi/g	n/a	< 2.75e-01	< 8.83e-01	< 3.96e-1	n/a	n/a	n/a	3.83e-01	n/a	
S961002438	F	Europium-155 by GEA	uCi/g	n/a	< 2.21e-01	< 4.30e-01	< 4.28e-1	n/a	n/a	n/a	4.30e-01	n/a	
S961002438	F	Americium-241 by GEA	uCi/g	n/a	< 1.15e-01	< 2.14e-01	< 2.36e-1	n/a	n/a	n/a	2.14e-01	n/a	
S961002468	A	Silver - ICP-Acid Digest	ug/g	81.90	< 1.00e-02	12.90	13.20	13.05	2.30	87.20	4.630	n/a	
S961002468	A	Aluminum - ICP-Acid Digest	ug/g	86.00	< 8.80e-02	8.80e+03	7.09e+03	7.92e+03	22.1	121.7	23.10	n/a	
S961002468	A	Arsenic - ICP-Acid Digest	ug/g	87.00	< 1.00e-01	< 4.630	< 4.47e1	n/a	n/a	91.20	46.30	n/a	
S961002468	A	Boron - ICP-Acid Digest	ug/g	94.20	< 3.73e-01	< 4.130	31.80	36.55	26.0	92.94	23.10	n/a	
S961002468	A	Barium - ICP-Acid Digest	ug/g	87.40	< 5.00e-02	< 23.10	< 2.23e1	n/a	n/a	89.80	23.10	n/a	
S961002468	A	Beryllium - ICP-Acid Digest	ug/g	92.00	< 5.00e-03	< 2.310	< 2.23e1	n/a	n/a	92.60	2.310	n/a	
S961002468	A	Bismuth - ICP-Acid Digest	ug/g	83.00	< 5.00e-03	< 4.630	< 4.47e1	n/a	n/a	91.60	46.30	n/a	
S961002468	A	Calcium - ICP-Acid Digest	ug/g	93.40	< 6.03e-01	1.32e+02	327.0	329.5	1.52	101.1	46.30	n/a	
S961002468	A	Cadmium - ICP-Acid Digest	ug/g	81.40	< 5.00e-03	7.780	7.170	7.475	8.16	87.36	2.310	n/a	
S961002468	A	Cerium - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	< 4.630	< 4.47e1	n/a	n/a	94.80	46.30	n/a	
S961002468	A	Cobalt - ICP-Acid Digest	ug/g	85.00	< 2.00e-02	< 9.260	< 8.93e0	n/a	n/a	90.00	9.250	n/a	
S961002468	A	Chromium - ICP-Acid Digest	ug/g	84.20	< 1.00e-02	< 4.38e+03	3.65e+03	4.02e+03	18.2	98.68	4.630	n/a	
S961002468	A	Copper - ICP-Acid Digest	ug/g	87.20	< 1.50e-02	< 18.60	18.90	18.75	1.60	99.58	4.630	n/a	
S961002468	A	Iron - ICP-Acid Digest	ug/g	87.40	< 1.78e-01	7.14e+02	739.0	726.5	3.44	117.4	23.10	n/a	
S961002468	A	Potassium - ICP-Acid Digest	ug/g	86.00	< 5.00e-02	< 1.35e+03	1.20e+03	1.28e+03	11.8	92.44	23.10	n/a	
S961002468	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	< 5.00e-02	< 23.10	< 2.23e1	n/a	n/a	92.60	23.10	n/a	
S961002468	A	Lithium - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	< 4.630	< 4.47e1	n/a	n/a	94.60	4.630	n/a	
S961002468	A	Magnesium - ICP-Acid Digest	ug/g	83.80	< 1.00e-01	< 47.10	< 4.47e1	n/a	n/a	84.30	46.30	n/a	
S961002468	A	Manganese - ICP-Acid Digest	ug/g	81.80	< 1.00e-02	28.40	25.30	22.10	5.43	87.86	4.630	n/a	
S961002468	A	Molybdenum - ICP-Acid Digest	ug/g	83.20	< 5.00e-02	< 2.27e+02	215.0	221.0	26.85	11.5	87.34	23.10	n/a
S961002468	A	Sodium - ICP-Acid Digest	ug/g	101.8	< 7.77e-01	1.72e+05	1.77e+05	1.74e+05	2.87	233.3	46.30	n/a	
S961002468	A	Nickel - ICP-Acid Digest	ug/g	88.60	< 1.00e-01	< 4.630	< 4.47e1	n/a	n/a	94.40	46.30	n/a	
S961002468	A	Nickel - ICP-Acid Digest	ug/g	83.60	< 2.00e-02	79.40	69.30	74.35	13.6	89.62	9.250	n/a	
S961002468	A	Phosphorus - ICP-Acid Digest	ug/g	89.00	< 2.00e-01	1.45e+04	1.39e+04	1.29e+04	24.8	n/a	92.60	n/a	
S961002468	A	Lead - ICP-Acid Digest	ug/g	78.00	< 1.00e-01	1.08e+02	105.0	106.5	2.82	85.96	46.30	n/a	
S961002468	A	Sulfur - ICP-Acid Digest	ug/g	82.20	< 2.28e-01	2.88e+03	2.81e+03	2.84e+03	2.46	120.3	46.30	n/a	
S961002468	A	Antimony - ICP-Acid Digest	ug/g	84.20	< 6.00e-02	< 27.80	< 2.68e1	n/a	n/a	91.40	27.80	n/a	
S961002468	A	Selenium - ICP-Acid Digest	ug/g	82.40	< 1.00e-01	< 4.630	< 4.47e1	n/a	n/a	87.80	46.30	n/a	
S961002468	A	Silicon - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	1.81e+02	125.0	153.0	36.6	88.28	23.10	n/a	
S961002468	A	Samarium - ICP-Acid Digest	ug/g	86.80	< 1.00e-01	< 4.630	< 4.47e1	n/a	n/a	89.00	46.30	n/a	
S961002468	A	Strontium - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 4.630	< 4.47e1	n/a	n/a	89.60	4.630	n/a	
S961002468	A	Titanium - ICP-Acid Digest	ug/g	81.00	< 1.00e-02	< 4.630	< 4.47e1	n/a	n/a	83.60	4.630	n/a	
S961002468	A	Thallium - ICP-Acid Digest	ug/g	78.00	< 2.00e-01	< 92.60	< 8.93e1	n/a	n/a	102.0	23.10	n/a	
S961002468	A	Uranium - ICP-Acid Digest	ug/g	84.90	< 5.00e-01	< 2.31e+02	< 2.23e1	n/a	n/a	88.40	23.10	n/a	
S961002468	A	Vanadium - ICP-Acid Digest	ug/g	84.60	< 5.00e-02	< 23.10	< 2.23e1	n/a	n/a	86.90	4.630	n/a	
S961002468	A	Zinc - ICP-Acid Digest	ug/g	79.20	< 5.00e-02	46.40	55.40	50.90	17.7	86.98	4.630	n/a	
S961002468	A	Zirconium - ICP-Acid Digest	ug/g	90.60	< 1.00e-02	13.00	11.50	12.25	12.2	93.80	4.630	n/a	
S961002476	W	Fluoride-IC-Bioxac 40001/4500	ug/g	104.6	< 3.06e-02	2.36e+02	< 2.42e2	3.58e+03	4.20	n/a	306.3	n/a	
S961002476	W	Chloride-IC-Bioxac 40001/4500	ug/g	105.7	< 1.70e-02	3.50e+03	3.50e+03	3.69e+04	5.16	n/a	1.94e+03	n/a	
S961002476	W	Nitrite-IC - Bioxac 40001/4500	ug/g	100.2	< 1.07e-01	3.59e+04	3.78e+04	n/a	n/a	103.9	476.3	n/a	
S961002476	W	Bromide by Ion Chromatograph	ug/g	101.0	< 2.6e-01	< 4.76e+02	< 4.88e2	2.36e+05	0.00	n/a	2.54e+03	n/a	
S961002476	W	Nitrate by IC-Bioxac 40001/4500	ug/g	102.9	< 4.06e-01	2.36e+05	2.36e+05	2.36e+05	5.85	n/a	2.16e+03	n/a	
S961002476	W	Phosphate-IC-Bioxac 40001/4500	ug/g	102.4	< 1.19e-01	4.98e+04	5.28e+04	8.76e+03	11.3	n/a	2.47e+03	n/a	
S961002476	W	Sulfate by IC-Bioxac 40001/4500	ug/g	103.6	< 3.6e-01	9.26e+03	9.26e+03	6.75e+03	1.78	n/a	1.91e+03	n/a	
S961002476	W	Oxalate by IC - Bioxac 40001	ug/g	105.3	< 1.05e-01	6.81e+03	6.69e+03	n/a	n/a	n/a	n/a	n/a	

L Lower Half of Segment: L Lower Half of Segment

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S961002328		Bulk Density	g/cc	n/a	n/a	1.810	n/a	n/a	n/a	n/a	3.00e-01	n/a	n/a
S961002329		DSC Exotherm DRY Calculated	Joules/g DRY	n/a	n/a	1.10e+02	106.8	106.2	2.59	n/a	n/a	n/a	n/a
S961002329		DSC Exotherm on Perkin Elmer	Joules/g	97.36	n/a	33.10	51.70	52.40	2.67	n/a	n/a	n/a	n/a
S961002329		% Water by TGA on Perkin Elmer	%	99.31	n/a	51.79	51.35	51.57	0.85	n/a	n/a	n/a	n/a
S961002329		TIC by Acid/Coulometry	uA/g	98.84	1.100	6.62e+03	5.94e+03	6.28e+03	10.8	n/a	5.000	n/a	n/a
S961002329		TOC by Persulfate/Coulometry	uA/g	91.57	3.000	4.35e+03	4.03e+03	4.20e+03	8.32	n/a	40.000	n/a	n/a
S961002443		F Silver - ICP-Fusion	uA/g	98.20	<1.00e-02	<2.00e+02	<1.90e2	n/a	n/a	70.70	200.0	n/a	n/a
S961002443		F Aluminum - ICP-Fusion	uA/g	98.20	<1.00e-02	<2.00e+02	<1.90e2	5.77e+03	2.43	n/a	99.9	n/a	n/a
S961002443		F Arsenic - ICP-Fusion	uA/g	101.8	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	97.10	2.00e+03	n/a	n/a
S961002443		F Barium - ICP-Fusion	uA/g	102.2	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	98.00	999.0	n/a	n/a
S961002443		F Boron - ICP-Fusion	uA/g	101.6	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	100.2	999.0	n/a	n/a
S961002443		F Beryllium - ICP-Fusion	uA/g	100.4	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	99.30	99.9	n/a	n/a
S961002443		F Bismuth - ICP-Fusion	uA/g	100.9	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	96.60	2.00e+03	n/a	n/a
S961002443		F Calcium - ICP-Fusion	uA/g	100.9	<1.00e-01	<2.00e+03	<1.90e3	101.7	n/a	2.00e+03	n/a	n/a	n/a
S961002443		F Cadmium - ICP-Fusion	uA/g	102.2	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	96.80	99.9	n/a	n/a
S961002443		F Cerium - ICP-Fusion	uA/g	100.9	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	96.80	99.9	n/a	n/a
S961002443		F Cobalt - ICP-Fusion	uA/g	98.86	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	95.80	2.00e+03	n/a	n/a
S961002443		F Chromium - ICP-Fusion	uA/g	100.9	<1.00e-02	<9.99e+02	<9.52e2	96.1	n/a	93.90	399.0	n/a	n/a
S961002443		F Copper - ICP-Fusion	uA/g	102.0	<1.00e-02	<9.99e+02	<9.52e2	96.1	12.3	96.50	200.0	n/a	n/a
S961002443		F Iron - ICP-Fusion	uA/g	103.4	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	101.7	200.0	n/a	n/a
S961002443		F Potassium - ICP-Fusion	uA/g	101.6	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	102.9	99.9	n/a	n/a
S961002443		F Lanthanum - ICP-Fusion	uA/g	102.8	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	102.9	99.9	n/a	n/a
S961002443		F Lithium - ICP-Fusion	uA/g	102.0	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	93.90	200.0	n/a	n/a
S961002443		F Magnesium - ICP-Fusion	uA/g	97.80	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	92.70	2.00e+03	n/a	n/a
S961002443		F Manganese - ICP-Fusion	uA/g	100.6	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	97.80	200.0	n/a	n/a
S961002443		F Molybdenum - ICP-Fusion	uA/g	98.80	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	93.90	99.9	n/a	n/a
S961002443		F Sodium - ICP-Fusion	uA/g	101.2	<1.00e-02	<9.99e+02	<9.52e2	2.70e+03	0.00	100.9	2.00e+03	n/a	n/a
S961002443		F Neodymium - ICP-Fusion	uA/g	100.9	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	114.4	2.00e+03	n/a	n/a
S961002443		F Nickel - ICP-Fusion	uA/g	100.4	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	93.90	99.9	n/a	n/a
S961002443		F Phosphorus - ICP-Fusion	uA/g	102.6	<1.00e-01	<2.00e+03	<1.90e3	4.88e+03	18.4	96.50	399.0	n/a	n/a
S961002443		F Lead - ICP-Fusion	uA/g	101.0	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	114.5	3.99e+03	n/a	n/a
S961002443		F Sulfur - ICP-Fusion	uA/g	97.80	<1.00e-02	<2.28e+03	<2.28e+03	4.02e+03	n/a	97.30	2.00e+03	n/a	n/a
S961002443		F Antimony - ICP-Fusion	uA/g	94.60	<1.00e-02	<1.20e+03	<1.1e3	n/a	n/a	97.30	2.00e+03	n/a	n/a
S961002443		F Selenium - ICP-Fusion	uA/g	99.40	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	97.30	2.00e+03	n/a	n/a
S961002443		F Silicon - ICP-Fusion	uA/g	95.20	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	97.30	2.00e+03	n/a	n/a
S961002443		F Samarium - ICP-Fusion	uA/g	103.0	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	97.30	2.00e+03	n/a	n/a
S961002443		F Strontium - ICP-Fusion	uA/g	101.0	<1.00e-02	<2.00e+02	<1.90e2	n/a	n/a	100.9	99.9	n/a	n/a
S961002443		F Tantalum - ICP-Fusion	uA/g	97.20	<1.00e-01	<2.00e+02	<1.90e2	n/a	n/a	93.90	200.0	n/a	n/a
S961002443		F Thallium - ICP-Fusion	uA/g	98.40	<1.00e-01	<2.00e+03	<1.90e3	n/a	n/a	93.90	200.0	n/a	n/a
S961002443		F Uranium - ICP-Fusion	uA/g	95.30	<1.00e-01	<9.99e+03	<9.52e3	n/a	n/a	97.30	9.99e+03	n/a	n/a
S961002443		F Vanadium - ICP-Fusion	uA/g	100.6	<1.00e-02	<9.99e+02	<9.52e2	n/a	n/a	97.30	200.0	n/a	n/a
S961002443		F Zinc - ICP-Fusion	uA/g	99.60	<1.00e-02	<6.01e+02	<5.77e2	589.0	4.0	95.30	200.0	n/a	n/a
S961002443		F Zirconium - ICP-Fusion	uA/g	99.00	<1.00e-02	<2.00e+02	<1.90e2	n/a	n/a	98.30	200.0	n/a	n/a
S961002443		F Cobalt-60 by GEA	uCi/g	108.3	<8.61e-02	<3.35e+02	<3.16e2	99.5	6.93	n/a	5.30e-02	n/a	n/a
S961002443		F Cesium-137 by GEA	uCi/g	101.9	<5.22e-02	<1.03e+02	<9.61e1	99.5	n/a	n/a	1.63e-01	n/a	n/a
S961002443		F Europium-154 by GEA	uCi/g	n/a	<2.75e-01	<1.63e+01	<1.70e+1	n/a	n/a	n/a	2.60e-01	n/a	n/a
S961002443		F Europium-155 by GEA	uCi/g	n/a	<2.21e-01	<2.60e+01	<2.45e+1	n/a	n/a	n/a	2.60e-01	n/a	n/a
S961002443		F Americium-241 by GEA	uCi/g	n/a	<1.13e-01	<1.44e+01	<1.36e+1	n/a	n/a	n/a	1.44e-01	n/a	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk rec %	Det Limit	Count Err%
S961002443	F	Alpha of Digested Solid	µCi/g	101.6	<8.0e-03	5.56e-02	5.91e-02	5.72e-02	6.10	90.25	1.10e-02	2.70E+01
S961002443	F	Alpha of Digested Solid	µCi/g	81.90	<1.0e-02	13.70	14.00	13.85	2.17	84.90	4.660	N/A
S961002449	A	Silver - IC-Acid Digest	µg/g	86.00	<8.0e-02	5.31e+03	4.42e+03	4.86e+03	18.3	168.2	23.30	N/A
S961002449	A	Aluminum - IC-Acid Digest	µg/g	87.00	<1.0e-01	<46.60	<4.87e1	N/A	N/A	88.40	46.60	N/A
S961002449	A	Arsenic - IC-Acid Digest	µg/g	94.20	<3.7e-01	56.90	31.90	44.40	56.3	89.48	23.30	N/A
S961002449	A	Boron - IC-Acid Digest	µg/g	87.40	<5.00e-02	<2.330	<2.43e1	N/A	N/A	86.20	23.30	N/A
S961002449	A	Beryllium - IC-Acid Digest	µg/g	92.00	<5.00e-03	<2.330	<2.330	N/A	N/A	89.80	2.330	N/A
S961002449	A	Bismuth - IC-Acid Digest	µg/g	83.00	<1.0e-01	<46.60	<4.87e1	N/A	N/A	85.80	46.60	N/A
S961002449	A	Calcium - IC-Acid Digest	µg/g	93.40	<6.0e-01	2.03e+02	202.0	202.5	0.49	101.6	2.330	N/A
S961002449	A	Cadmium - IC-Acid Digest	µg/g	81.40	<5.00e-03	2.500	<2.43e1	N/A	N/A	85.94	2.330	N/A
S961002449	A	Cerium - IC-Acid Digest	µg/g	91.20	<1.00e-01	<46.60	<4.87e1	N/A	N/A	88.20	46.60	N/A
S961002449	A	Cobalt - IC-Acid Digest	µg/g	85.00	<2.00e-02	<9.320	<9.75e0	N/A	N/A	86.20	9.320	N/A
S961002449	A	Chromium - IC-Acid Digest	µg/g	84.20	<1.0e-02	7.45e+02	626.0	685.5	17.4	107.2	4.660	N/A
S961002449	A	Copper - IC-Acid Digest	µg/g	87.20	<1.50e-02	5.790	5.410	5.600	6.79	85.58	4.660	N/A
S961002449	A	Iron - IC-Acid Digest	µg/g	87.40	<1.78e-01	87.20	73.10	80.15	17.6	88.84	23.30	N/A
S961002449	A	Potassium - IC-Acid Digest	µg/g	86.00	<5.00e-01	1.10e+03	934.0	1.02e+03	16.3	100.1	23.30	N/A
S961002449	A	Lead - IC-Acid Digest	µg/g	88.40	<5.00e-02	<2.330	<2.43e1	N/A	N/A	88.20	23.30	N/A
S961002449	A	Lithium - IC-Acid Digest	µg/g	92.00	<1.00e-02	<4.660	<4.87e1	N/A	N/A	89.60	46.60	N/A
S961002449	A	Magnesium - IC-Acid Digest	µg/g	85.00	<1.00e-01	<46.60	<4.87e1	N/A	N/A	84.00	46.60	N/A
S961002449	A	Manganese - IC-Acid Digest	µg/g	81.80	<1.00e-02	26.30	22.50	24.40	15.6	83.98	4.660	N/A
S961002449	A	Molybdenum - IC-Acid Digest	µg/g	83.20	<5.00e-02	<2.330	<2.43e1	N/A	N/A	89.80	23.30	N/A
S961002449	A	Sodium - IC-Acid Digest	µg/g	101.8	<7.77e-01	1.92e+05	1.94e+05	1.93e+05	1.04	N/A	46.60	N/A
S961002449	A	Selenium - IC-Acid Digest	µg/g	88.40	<1.00e-01	<46.60	<4.87e1	N/A	N/A	88.20	46.60	N/A
S961002449	A	Nickel - IC-Acid Digest	µg/g	83.60	<2.00e-02	36.10	31.00	33.55	15.2	88.92	9.320	N/A
S961002449	A	Phosphorus - IC-Acid Digest	µg/g	89.00	<5.00e-01	3.21e+03	3.51e+03	3.36e+03	8.93	191.0	93.20	N/A
S961002449	A	Lead - IC-Acid Digest	µg/g	82.20	<2.28e-01	2.17e+03	1.84e+03	2.02e+03	15.4	495.5	46.60	N/A
S961002449	A	Sulfur - IC-Acid Digest	µg/g	86.20	<6.00e-02	<28.00	<2.92e1	N/A	N/A	90.40	28.00	N/A
S961002449	A	Antimony - IC-Acid Digest	µg/g	92.40	<1.00e-01	<46.60	<4.87e1	N/A	N/A	85.80	46.60	N/A
S961002449	A	Selenium - IC-Acid Digest	µg/g	91.20	<1.00e-01	1.89e+02	187.0	168.0	25.0	91.70	23.30	N/A
S961002449	A	Silicon - IC-Acid Digest	µg/g	86.80	<1.00e-01	<46.60	<4.87e1	N/A	N/A	85.80	46.60	N/A
S961002449	A	Samarium - IC-Acid Digest	µg/g	86.80	<1.00e-02	<4.660	<4.87e1	N/A	N/A	86.00	4.660	N/A
S961002449	A	Strontium - IC-Acid Digest	µg/g	81.00	<1.00e-02	<4.660	<4.87e1	N/A	N/A	82.40	4.660	N/A
S961002449	A	Titanium - IC-Acid Digest	µg/g	78.00	<2.00e-02	<93.20	<9.75e1	N/A	N/A	81.40	93.20	N/A
S961002449	A	Thallium - IC-Acid Digest	µg/g	86.90	<5.00e-01	<2.33e+02	<2.43e1	N/A	N/A	85.20	23.30	N/A
S961002449	A	Uranium - IC-Acid Digest	µg/g	87.40	<5.00e-02	<2.330	<2.43e1	N/A	N/A	86.00	23.30	N/A
S961002449	A	Vanadium - IC-Acid Digest	µg/g	90.20	<5.00e-02	<4.660	<4.87e1	N/A	N/A	85.20	4.660	N/A
S961002449	A	Zinc - IC-Acid Digest	µg/g	90.40	<1.00e-02	<4.660	<4.87e1	N/A	N/A	93.20	4.660	N/A
S961002449	A	Zirconium - IC-Acid Digest	µg/g	104.9	<1.00e-02	<2.33e+02	<2.43e1	N/A	N/A	106.2	241.0	N/A
S961002478	V	Fluoride - IC-Dioxex 4000/14500	µg/g	105.9	<1.70e-02	9.22e+03	3.60e+03	3.36e+03	25.3	102.8	3715.1	N/A
S961002478	V	Chloride - IC-Dioxex 4000/14500	µg/g	101.2	<1.00e-02	3.06e+04	2.94e+04	3.00e+04	4.00	102.4	1.98e+03	N/A
S961002478	V	Nitrite - IC - Dioxex 4000/14500	µg/g	101.6	<1.20e-01	<9.32e05	<9.95e2	N/A	N/A	N/A	947.9	N/A
S961002478	V	Bromide by Ion chromatograph	µg/g	103.9	<1.20e-01	8.42e+05	5.04e+05	6.83e+05	8.70	102.4	2.59e+03	N/A
S961002478	V	Nitrate by IC-Dioxex4000/14500	µg/g	103.9	<1.40e-01	8.42e+05	5.04e+05	6.83e+05	8.70	102.2	2.20e+03	N/A
S961002478	V	Phosphate - IC-Dioxex 4000/14500	µg/g	105.9	<1.30e-01	8.42e+05	5.04e+05	6.83e+05	8.70	102.2	2.20e+03	N/A
S961002478	V	Sulfate by IC-Dioxex4000/14500	µg/g	105.9	<1.30e-01	8.42e+05	5.04e+05	6.83e+05	8.70	102.2	2.59e+03	N/A
S961002478	V	Oxalate by IC - Dioxex 4000/14500	µg/g	105.3	<1.00e-01	<1.95e+03	<2.40e2	N/A	N/A	106.9	1.95e+03	N/A

Drainable Liquid: Drainable Liquid

Sample #	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002323		OSC Exotherm using Mettler	Joules/g	111.4	n/a	1.22e+02	126.1	123.0	1.79	n/a	n/a	n/a
S951002323		OSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	2.47e+02	251.3	249.1	1.81	n/a	n/a	n/a
S951002323		Specific Gravity	Sp.G.	98.71	n/a	1.397	1.402	1.399	0.36	n/a	1.00e-03	n/a
S951002323		% Water by TOA using Mettler	%	98.07	n/a	50.93	50.28	50.61	1.28	n/a	n/a	n/a
S951002323		D Silver-ICP-Acid Dil.	ug/mL	99.60	< 1.00e-02	17.70	18.00	17.85	1.68	91.40	4.010	n/a
S951002323		D Aluminum-ICP-Acid Dil.	ug/mL	97.80	< 5.00e-02	1.85e+04	1.86e+04	1.86e+04	1.61	n/a	20.10	n/a
S951002323		D Arsenic-ICP-Acid Dil.	ug/mL	102.8	< 1.00e-01	< 40.10	< 4.01e1	n/a	n/a	96.30	40.10	n/a
S951002323		D Boron-ICP-Acid Dil.	ug/mL	100.4	< 5.00e-02	83.20	88.70	85.95	6.40	95.70	20.10	n/a
S951002323		D Beryllium-ICP-Acid Dil.	ug/mL	99.60	< 5.00e-02	< 2.010	< 2.01e1	n/a	n/a	96.30	20.10	n/a
S951002323		D Bromine-ICP-Acid Dil.	ug/mL	102.8	< 5.00e-02	< 2.010	< 2.00e0	n/a	n/a	100.3	2.000	n/a
S951002323		D Cadmium-ICP-Acid Dil.	ug/mL	101.0	< 1.00e-01	< 40.10	< 4.01e1	n/a	n/a	94.30	40.10	n/a
S951002323		D Calcium-ICP-Acid Dil.	ug/mL	102.8	< 1.00e-01	2.68e+02	270.0	269.0	0.74	101.4	40.10	n/a
S951002323		D Cerium-ICP-Acid Dil.	ug/mL	100.2	< 5.00e-03	5.150	5.830	5.490	12.4	97.00	2.000	n/a
S951002323		D Cobalt-ICP-Acid Dil.	ug/mL	102.6	< 1.00e-01	< 40.10	< 4.01e1	n/a	n/a	100.0	40.10	n/a
S951002323		D Chromium-ICP-Acid Dil.	ug/mL	102.0	< 5.00e-02	2.98e+02	302.0	300.0	1.33	97.10	8.020	n/a
S951002323		D Copper-ICP-Acid Dil.	ug/mL	103.4	< 1.00e-02	5.860	5.670	5.765	3.30	99.30	4.010	n/a
S951002323		D Potassium-ICP-Acid Dil.	ug/mL	101.6	< 5.00e-02	< 20.10	< 2.01e1	n/a	n/a	101.5	20.10	n/a
S951002323		D Lithium-ICP-Acid Dil.	ug/mL	95.00	< 5.00e-01	3.76e+03	3.59e+03	3.68e+03	4.93	87.80	200.0	n/a
S951002323		D Magnesium-ICP-Acid Dil.	ug/mL	100.8	< 5.00e-02	< 20.10	< 2.01e1	n/a	n/a	99.30	20.10	n/a
S951002323		D Manganese-ICP-Acid Dil.	ug/mL	99.80	< 1.00e-02	< 4.010	< 4.01e0	n/a	n/a	102.5	4.010	n/a
S951002323		D Nickel-ICP-Acid Dil.	ug/mL	97.60	< 1.00e-02	< 40.10	< 4.01e1	n/a	n/a	91.30	40.10	n/a
S951002323		D Sodium-ICP-Acid Dil.	ug/mL	98.60	< 5.00e-02	< 4.010	< 4.01e0	n/a	n/a	94.00	4.010	n/a
S951002323		D Selenium-ICP-Acid Dil.	ug/mL	101.4	< 5.00e-02	96.10	99.10	97.60	3.07	99.20	20.10	n/a
S951002323		D Silver-ICP-Acid Dil.	ug/mL	109.4	< 1.00e-01	2.49e+03	2.33e+03	2.51e+03	1.59	n/a	40.10	n/a
S951002323		D Sulfur-ICP-Acid Dil.	ug/mL	109.6	< 5.00e-01	< 80.10	< 8.01e1	129.0	1.55	96.30	8.020	n/a
S951002323		D Tellurium-ICP-Acid Dil.	ug/mL	101.6	< 5.00e-02	1.86e+02	1.90e+02	1.79e+02	0.00	91.30	80.20	n/a
S951002323		D Vanadium-ICP-Acid Dil.	ug/mL	99.20	< 1.00e-01	< 40.10	< 4.01e1	n/a	n/a	103.3	40.10	n/a
S951002323		D Zinc-ICP-Acid Dil.	ug/mL	97.00	< 5.00e-02	< 20.10	< 2.01e1	3.52e+03	0.85	94.30	40.10	n/a
S951002323		D Antimony-ICP-Acid Dil.	ug/mL	99.60	< 1.00e-02	1.37e+02	1.09e+02	123.0	22.8	107.5	40.10	n/a
S951002323		D Silicon-ICP-Acid Dil.	ug/mL	98.40	< 5.00e-02	< 40.10	< 4.01e1	n/a	n/a	94.50	40.10	n/a
S951002323		D Strontium-ICP-Acid Dil.	ug/mL	99.20	< 1.00e-02	< 40.10	< 4.01e1	n/a	n/a	96.30	40.10	n/a
S951002323		D Thallium-ICP-Acid Dil.	ug/mL	99.60	< 1.00e-02	< 4.010	< 4.01e0	n/a	n/a	96.30	4.010	n/a
S951002323		D Tin-ICP-Acid Dil.	ug/mL	97.80	< 1.00e-02	< 4.010	< 4.01e0	n/a	n/a	96.30	4.010	n/a
S951002323		D Uranium-ICP-Acid Dil.	ug/mL	96.80	< 5.00e-01	< 80.20	< 8.02e1	n/a	n/a	96.30	40.10	n/a
S951002323		D Vanadium-ICP-Acid Dil.	ug/mL	95.80	< 5.00e-01	< 2.00e+02	< 2.00e2	n/a	n/a	96.30	200.0	n/a
S951002323		D Zirconium-ICP-Acid Dil.	ug/mL	100.8	< 5.00e-02	< 20.10	< 2.01e1	n/a	n/a	98.07	20.10	n/a
S951002323		D Fluoride-IC-Dioxex 40001/4500	ug/mL	101.4	< 1.00e-02	44.00	45.00	44.50	2.65	106.8	20.10	n/a
S951002323		D Chloride-IC-Dioxex 40001/4500	ug/mL	99.20	< 1.00e-02	< 4.010	< 4.01e0	n/a	n/a	97.50	4.010	n/a
S951002323		D Nitrate-IC - Dioxex 40001/4500	ug/mL	106.8	< 1.30e-02	8.33e+03	8.33e+03	8.74e+03	1.48	103.5	132.0	n/a
S951002323		Bromide by Ion Chromatograph	ug/mL	101.7	< 1.07e-01	1.06e+05	1.02e+05	1.04e+05	3.85	107.2	176.0	n/a
S951002323		Nitrate-IC - Dioxex 40001/4500	ug/mL	102.3	< 1.26e-01	< 1.20e3	< 1.20e3	2.39e+05	0.82	113.8	1.63e+03	n/a
S951002323		Phosphate-IC-Dioxex 40001/4500	ug/mL	104.6	< 1.90e-01	3.76e+03	3.76e+03	3.76e+03	0.00	107.6	1.21e+03	n/a
S951002323		Sulfate by IC-Dioxex40001/4500	ug/mL	104.8	< 1.36e-01	7.45e+03	7.46e+03	7.45e+03	0.13	105.1	1.59e+03	n/a

Sample#	RAM	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002323		Oxidate by IC - Dionex 4000	ug/mL	105.9	<1.05e-01	<1.07e-03	<1.07e-03	n/a	n/a	108.1	1.07e-03	n/a
S961002323		Alpha in Liquid Samples	uc/mL	111.7	<1.24e-02	2.72e-02	2.60e-02	2.66e-02	4.51	100.6	1.80e-02	5.74E+01
S961002324		OH- by Pot. Titration	ug/mL	104.0	<2050.0	2.24e+04	2.04e+04	2.14e+04	9.35	n/a	2.50e+03	n/a
S961002524		pH Direct	pH	99.62	n/a	13.27	n/a	n/a	n/a	n/a	1.00e-02	n/a
S961002524		Tot. Inorg. Carbon by Coul.	ug/mL	97.51	3.00e-01	1.01e+04	9.74e+03	9.92e+03	3.63	94.02	60.00	n/a
S961002524		Tot. Organic Carbon by Coul.	ug/mL	100.3	8.00e-01	1.23e+04	1.25e+04	1.24e+04	1.61	101.0	205.0	n/a
S961002524		Strontium-89/90 High Level	uc/mL	102.3	4.00e-03	9.280	9.190	9.235	0.97	n/a	2.00e-03	6.97E-01
S961002524		Pu-239/240 by TRU-SPEC Resin	uc/mL	98.95	<3.08e-05	7.99e-04	8.06e-04	8.03e-04	0.87	n/a	5.96e-05	1.77E+00
S961002524		Cobalt-60 by GEA	uc/mL	99.09	<2.85e-03	3.02e-02	<2.47e-2	n/a	n/a	n/a	n/a	39.4
S961002524		Cesium-137 by GEA	uc/mL	100.7	<6.31e-03	3.73e+02	371.0	372.0	0.54	n/a	n/a	0.220
S961002524		Am-241 by Extraction	uc/mL	97.39	<1.27e-03	1.93e-02	1.94e-02	1.93e-02	0.52	n/a	3.00e-03	2.77E+00

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample #	RA#	Analyte	Unit	Standard X	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002331		Bulk Density of Sample	g/mL	N/A	N/A	1.690	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002332		Cyanide EDTA Addition	ug/g	95.31	5.70e-02	20.40	29.70	25.05	37.1	11.0	4.50e-01	N/A
S961002333		Cyanide Water Distillation	ug/g	96.30	<5.00e-02	17.70	18.00	17.85	1.88	91.10	2.740	N/A
S961002335		DSC Exotherm using Wetler	Joules/g	111.8	N/A	2.45e+02	288.9	266.6	20.0	N/A	N/A	N/A
S961002336		DSC Exotherm Dry Calculated	Joules/g	N/A	N/A	2.45e+02	287.9	256.4	20.0	N/A	N/A	N/A
S961002337		Water by Iga using Wetler %	%	97.94	N/A	50.30	51.41	50.85	2.18	N/A	N/A	N/A
S961002338		Tit by Acid coulometry	ug/g	96.84	1.000	8.87e+03	1.01e+03	9.44e+03	13.0	N/A	5.000	N/A
S961002339		IC by Per sulfate/coulometry	ug/g	91.67	5.000	7.12e+03	7.16e+03	7.44e+03	3.60	N/A	40.00	N/A
S961002340		F Silver - ICP-Fusion	ug/g	98.20	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	96.50	202.0	N/A
S961002341		F Aluminum - ICP-Fusion	ug/g	98.20	<1.00e-02	<2.02e+03	<1.99e3	N/A	N/A	99.40	1.01e+03	N/A
S961002344		F Arsenic - ICP-Fusion	ug/g	101.8	<1.00e-02	<2.02e+03	<1.99e3	N/A	N/A	97.10	2.02e+03	N/A
S961002345		F Barium - ICP-Fusion	ug/g	101.2	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	98.50	1.01e+03	N/A
S961002346		F Beryllium - ICP-Fusion	ug/g	101.2	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	98.50	1.01e+03	N/A
S961002347		F Bismuth - ICP-Fusion	ug/g	100.8	<1.00e-02	<2.02e+03	<1.99e3	N/A	N/A	96.80	2.02e+03	N/A
S961002348		F Calcium - ICP-Fusion	ug/g	102.3	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	100.5	2.02e+03	N/A
S961002349		F Cadmium - ICP-Fusion	ug/g	100.6	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	96.10	101.0	N/A
S961002350		F Cesium - ICP-Fusion	ug/g	102.3	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	96.10	2.02e+03	N/A
S961002351		F Cobalt - ICP-Fusion	ug/g	100.8	<1.00e-02	<2.02e+03	<1.99e3	N/A	N/A	93.40	405.0	N/A
S961002352		F Chromium - ICP-Fusion	ug/g	102.0	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	100.5	202.0	N/A
S961002353		F Copper - ICP-Fusion	ug/g	103.4	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	101.5	202.0	N/A
S961002354		F Iron - ICP-Fusion	ug/g	101.6	<1.00e-01	<7.48e+06	N/A	N/A	N/A	101.5	1.01e+04	N/A
S961002355		F Lanthanum - ICP-Fusion	ug/g	102.8	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	101.5	1.01e+03	N/A
S961002356		F Lithium - ICP-Fusion	ug/g	102.0	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	94.10	202.0	N/A
S961002357		F Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	92.40	2.02e+03	N/A
S961002358		F Manganese - ICP-Fusion	ug/g	100.6	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	97.10	202.0	N/A
S961002359		F Molybdenum - ICP-Fusion	ug/g	98.80	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	93.40	1.01e+03	N/A
S961002360		F Sodium - ICP-Fusion	ug/g	101.2	<2.610	2.56e+05	2.55e+05	2.56e+05	0.30	119.4	2.02e+03	N/A
S961002361		F Neodymium - ICP-Fusion	ug/g	109.0	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	111.5	2.02e+03	N/A
S961002362		F Nickel - ICP-Fusion	ug/g	100.4	1.82e-01	2.53e+03	4.82e+03	3.68e+03	62.3	95.80	405.0	N/A
S961002363		F Phosphorus - ICP-Fusion	ug/g	102.6	<2.00e-01	4.41e+03	3.99e+03	4.20e+03	10.0	95.80	4.05e+03	N/A
S961002364		F Lead - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	97.80	2.02e+03	N/A
S961002365		F Sulfur - ICP-Fusion	ug/g	97.80	<1.00e-01	<3.53e+03	3.87e+03	3.70e+03	9.19	89.60	2.02e+03	N/A
S961002366		F Antimony - ICP-Fusion	ug/g	94.60	<1.00e-02	<1.21e+03	<1.20e3	N/A	N/A	88.30	1.21e+03	N/A
S961002367		F Selenium - ICP-Fusion	ug/g	99.40	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	92.00	2.02e+03	N/A
S961002368		F Silicon - ICP-Fusion	ug/g	95.20	<1.00e-02	<1.01e+03	<9.97e2	N/A	N/A	92.00	1.01e+03	N/A
S961002369		F Samarium - ICP-Fusion	ug/g	103.0	<1.00e-01	<2.02e+03	<1.99e3	N/A	N/A	101.5	2.02e+03	N/A
S961002370		F Strontium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	99.50	202.0	N/A
S961002371		F Thallium - ICP-Fusion	ug/g	97.20	<1.00e-02	<2.02e+02	<1.99e2	N/A	N/A	93.40	202.0	N/A
S961002372		F Uranium - ICP-Fusion	ug/g	98.40	<1.00e-01	<4.05e+03	<3.99e3	N/A	N/A	92.50	4.05e+03	N/A
S961002373		F Vanadium - ICP-Fusion	ug/g	95.30	<1.00e-01	<1.01e+04	<9.97e3	N/A	N/A	93.15	1.01e+04	N/A
S961002374		F Vanadium - ICP-Fusion	ug/g	100.6	<5.00e-02	<1.01e+03	<9.97e2	N/A	N/A	97.30	1.01e+03	N/A

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A-0002-3

Sample#	Ref	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPP %	Spk Rec %	Det Limit	Count Err%
S96100244	F	Zinc - ICP-Emission	ug/g	99.40	4.40e-02	1.00e+03	726.0	863.0	31.7	95.00	202.0	N/A
S96100244	F	Zinc - ICP-Emission	ug/g	99.00	<1.00e-02	<2.02e-02	<1.99e2	N/A	N/A	97.60	202.0	N/A
S96100244	F	Cobalt - ICP-Emission	ug/g	108.3	6.51e-02	4.69e-02	4.18e-2	N/A	N/A	N/A	4.70e-02	N/A
S96100244	F	Cesium - ICP-Emission	ug/g	101.9	5.22e-02	1.30e-02	140.0	134.9	7.41	N/A	N/A	0.630
S96100244	F	Europium - ICP-Emission	ug/g	N/A	<2.75e-01	<1.87e-01	<1.83e-1	N/A	N/A	N/A	1.87e-01	N/A
S96100244	F	Europium - ICP-Emission	ug/g	N/A	<2.21e-01	<2.92e-01	<2.92e-1	N/A	N/A	N/A	2.92e-01	N/A
S96100244	F	Americium-241 by GEA	ug/g	N/A	<1.15e-01	<1.59e-01	<1.63e-1	N/A	N/A	N/A	1.59e-01	N/A
S96100244	F	Silver - ICP-Acid Digest	ug/g	81.90	<1.00e-02	12.30	13.30	12.90	6.20	N/A	4.440	N/A
S96100244	F	Aluminum - ICP-Acid Digest	ug/g	86.00	8.80e-02	9.19e+03	9.72e+03	9.48e+03	5.61	N/A	22.20	N/A
S96100244	F	Aluminum - ICP-Acid Digest	ug/g	87.00	<1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Boron - ICP-Acid Digest	ug/g	94.70	3.73e-01	91.40	50.40	70.90	37.8	N/A	22.20	N/A
S96100244	F	Barium - ICP-Acid Digest	ug/g	87.40	5.00e-02	<2.20	<2.31e1	N/A	N/A	N/A	22.20	N/A
S96100244	F	Beryllium - ICP-Acid Digest	ug/g	92.00	5.00e-03	<2.20	<2.31e1	N/A	N/A	N/A	22.20	N/A
S96100244	F	Bismuth - ICP-Acid Digest	ug/g	85.00	<1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Calcium - ICP-Acid Digest	ug/g	93.00	6.03e-01	2.49e+02	288.0	268.5	14.5	N/A	44.40	N/A
S96100244	F	Cadmium - ICP-Acid Digest	ug/g	81.40	5.00e-03	4.230	4.780	4.505	12.2	N/A	2.220	N/A
S96100244	F	Cerium - ICP-Acid Digest	ug/g	91.20	<1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Cobalt - ICP-Acid Digest	ug/g	85.00	<2.00e-02	<8.870	<9.25e0	N/A	N/A	N/A	8.870	N/A
S96100244	F	Chromium - ICP-Acid Digest	ug/g	84.20	1.10e-02	1.35e+03	1.48e+03	1.42e+03	9.19	N/A	4.440	N/A
S96100244	F	Copper - ICP-Acid Digest	ug/g	87.40	1.78e-01	1.75e+03	188.0	181.5	7.16	N/A	22.20	N/A
S96100244	F	Potassium - ICP-Acid Digest	ug/g	86.00	5.00e-01	<2.20	<2.31e1	N/A	N/A	N/A	22.20	N/A
S96100244	F	Lanthanum - ICP-Acid Digest	ug/g	88.60	<1.00e-02	<4.440	<4.62e0	N/A	N/A	N/A	44.40	N/A
S96100244	F	Lithium - ICP-Acid Digest	ug/g	83.00	<1.00e-02	<4.440	<4.62e0	N/A	N/A	N/A	44.40	N/A
S96100244	F	Magnesium - ICP-Acid Digest	ug/g	83.00	<1.00e-02	56.40	61.70	59.15	8.62	N/A	4.440	N/A
S96100244	F	Manganese - ICP-Acid Digest	ug/g	81.80	<1.00e-02	30.40	31.50	30.95	3.55	N/A	22.20	N/A
S96100244	F	Molybdenum - ICP-Acid Digest	ug/g	83.20	5.00e-02	1.76e+03	1.80e+03	1.78e+03	2.25	N/A	44.40	N/A
S96100244	F	Sodium - ICP-Acid Digest	ug/g	101.8	1.77e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Neodymium - ICP-Acid Digest	ug/g	88.60	<1.00e-02	69.00	70.10	69.55	1.58	N/A	8.870	N/A
S96100244	F	Nickel - ICP-Acid Digest	ug/g	83.60	<1.00e-02	3.76e+03	3.76e+03	3.86e+03	5.43	N/A	88.70	N/A
S96100244	F	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Lead - ICP-Acid Digest	ug/g	78.00	1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Sulfur - ICP-Acid Digest	ug/g	82.20	2.28e-01	3.72e+03	3.77e+03	3.64e+03	6.86	N/A	26.60	N/A
S96100244	F	Antimony - ICP-Acid Digest	ug/g	82.40	<5.00e-02	<4.440	<4.62e1	N/A	N/A	N/A	44.40	N/A
S96100244	F	Selenium - ICP-Acid Digest	ug/g	82.40	<1.00e-01	1.08e+02	110.0	109.0	1.83	N/A	22.20	N/A
S96100244	F	Samarium - ICP-Acid Digest	ug/g	86.80	<1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	4.440	N/A
S96100244	F	Strontium - ICP-Acid Digest	ug/g	87.20	<1.00e-02	<4.440	<4.62e0	N/A	N/A	N/A	4.440	N/A
S96100244	F	Tellurium - ICP-Acid Digest	ug/g	81.00	<2.00e-01	<8.870	<9.25e0	N/A	N/A	N/A	88.70	N/A
S96100244	F	Thallium - ICP-Acid Digest	ug/g	84.90	<3.00e-01	<2.22e+02	<2.31e2	N/A	N/A	N/A	22.20	N/A
S96100244	F	Uranium - ICP-Acid Digest	ug/g	84.50	<3.00e-02	<2.20	<2.31e1	N/A	N/A	N/A	22.20	N/A
S96100244	F	Vanadium - ICP-Acid Digest	ug/g	79.20	5.00e-02	<4.440	<4.62e0	24.05	15.2	N/A	4.440	N/A
S96100244	F	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	<4.440	<4.62e0	N/A	N/A	N/A	4.440	N/A
S96100244	F	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	<4.440	<4.62e0	N/A	N/A	N/A	4.440	N/A
S96100244	F	Fluoride - ICP-Acid Digest	ug/g	100.8	<1.00e-02	<4.440	<4.62e1	N/A	N/A	N/A	121.4	N/A
S96100244	F	Chloride - ICP-Acid Digest	ug/g	100.8	<1.00e-02	<4.440	<4.62e1	N/A	N/A	N/A	121.4	N/A
S96100244	F	Nitrate - ICP-Acid Digest	ug/g	94.47	<1.00e-01	4.28e+04	4.28e+04	3.93e+04	16.8	N/A	889.2	N/A
S96100244	F	Bromide - ICP-Acid Digest	ug/g	93.91	<1.00e-01	<4.440	<4.62e1	N/A	N/A	N/A	88.70	N/A
S96100244	F	Nitrate by IC-Dioxin	ug/g	95.77	<1.00e-01	2.60e+03	2.60e+03	2.89e+03	20.4	N/A	889.2	N/A
S96100244	F	Nitrate by IC-Dioxin	ug/g	95.77	<1.00e-01	2.60e+03	2.60e+03	2.89e+03	20.4	N/A	889.2	N/A
S96100244	F	Phosphate - ICP-Acid Digest	ug/g	95.77	<1.00e-01	1.15e+04	9.97e+03	1.07e+04	14.3	N/A	849.1	N/A

Sample#	RAW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96100279	W	Sulfate by IC-Dionex4000/4500	ug/g	97.31	<1.56e-01	1.25e+04	1.01e+04	1.13e+04	1.3e+04	94.93	970.5	N/A
S961002479	W	Oxalate by IC - Dionex 40001	ug/g	103.0	<1.05e-01	3.48e+03	3.15e+03	3.32e+03	9.95	96.42	749.9	N/A

L Lower Half of Segment: L Lower Half of Segment												
Sample#	RAW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002364		Bulk Density of Sample	g/mL	N/A	N/A	1.840	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002333		Cyanide EDTA Addition	ug/g	95.31	5.70e-01	35.60	34.70	35.15	2.56	101.6	4.00e-01	N/A
S961002333		Cyanide Water Distillation	ug/g	66.30	<5.50e-02	22.70	25.50	24.10	11.6	N/A	2.550	N/A
S961002333		OSC Exotherm using Mettler	Joules/g	111.8	N/A	3.07e+02	315.8	310.6	2.09	N/A	N/A	N/A
S961002333		OSC Exotherm Dry Calculated	Joules/g Dry	N/A	N/A	6.11e+02	624.1	617.7	2.09	N/A	N/A	N/A
S961002333		Water by TGA using Mettler	%	97.94	N/A	50.52	48.92	49.72	3.22	N/A	N/A	N/A
S961002333		TIC by Acid/iodometry	ug/g	97.18	N/A	9.54e+03	9.09e+03	9.32e+03	6.83	116.0	5.000	N/A
S961002333		TOC by Persulfate/iodometry	ug/g	92.67	1.300	8.67e+03	8.67e+03	8.69e+03	11.7	120.0	40.00	N/A
S961002425	F	Silver - ICP-Fusion	ug/g	98.20	<1.00e-02	<2.02e+02	<1.96e+02	N/A	N/A	84.10	202.0	N/A
S961002425	F	Aluminum - ICP-Fusion	ug/g	98.20	<5.00e-02	<1.50e+04	<1.59e+04	1.54e+04	5.83	97.30	1.01e+03	N/A
S961002425	F	Arsenic - ICP-Fusion	ug/g	101.8	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	98.30	2.02e+03	N/A
S961002425	F	Boron - ICP-Fusion	ug/g	101.6	<5.00e-02	<1.01e+03	<9.89e+02	N/A	N/A	99.30	1.01e+03	N/A
S961002425	F	Barium - ICP-Fusion	ug/g	104.4	<5.00e-02	<1.01e+03	<9.89e+02	N/A	N/A	100.5	1.01e+03	N/A
S961002425	F	Beryllium - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	100.5	1.01e+03	N/A
S961002425	F	Calcium - ICP-Fusion	ug/g	100.8	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	100.5	1.01e+03	N/A
S961002425	F	Chromium - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	100.5	1.01e+03	N/A
S961002425	F	Cadmium - ICP-Fusion	ug/g	100.6	<1.00e-03	<1.01e+02	<9.89e+01	N/A	N/A	99.00	101.0	N/A
S961002425	F	Cobalt - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	99.00	101.0	N/A
S961002425	F	Copper - ICP-Fusion	ug/g	98.80	<1.00e-02	<4.05e+02	<3.96e+02	N/A	N/A	97.10	405.0	N/A
S961002425	F	Iron - ICP-Fusion	ug/g	102.0	<1.00e-02	<2.70e+03	<2.75e+03	2.92e+03	1.71	96.80	202.0	N/A
S961002425	F	Lithium - ICP-Fusion	ug/g	101.6	<5.00e-02	<2.02e+02	<1.98e+02	N/A	N/A	101.0	1.01e+03	N/A
S961002425	F	Lead - ICP-Fusion	ug/g	101.6	<5.00e-02	<1.01e+03	<9.89e+02	N/A	N/A	104.4	1.01e+03	N/A
S961002425	F	Nickel - ICP-Fusion	ug/g	101.6	<5.00e-02	<1.01e+03	<9.89e+02	N/A	N/A	103.2	1.01e+03	N/A
S961002425	F	Vanadium - ICP-Fusion	ug/g	103.0	<1.00e-02	<2.02e+03	<1.98e+03	N/A	N/A	94.60	202.0	N/A
S961002425	F	Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.02e+02	<1.98e+02	N/A	N/A	95.40	2.02e+03	N/A
S961002425	F	Manganese - ICP-Fusion	ug/g	100.3	<1.00e-02	<2.02e+03	<1.98e+03	N/A	N/A	100.5	1.01e+03	N/A
S961002425	F	Molybdenum - ICP-Fusion	ug/g	98.80	<5.00e-02	<1.01e+02	<9.89e+01	N/A	N/A	96.30	1.01e+03	N/A
S961002425	F	Sodium - ICP-Fusion	ug/g	101.2	2.096	3.07e+03	2.03e+03	2.05e+03	1.92	106.0	2.02e+03	N/A
S961002425	F	Niobium - ICP-Fusion	ug/g	100.0	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	116.0	2.02e+03	N/A
S961002425	F	Nickel - ICP-Fusion	ug/g	100.4	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	116.0	2.02e+03	N/A
S961002425	F	Phosphorus - ICP-Fusion	ug/g	102.4	<2.00e-01	<5.20e+03	<5.30e+03	5.25e+03	1.90	100.6	4.05e+03	N/A
S961002425	F	Lead - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	100.6	4.05e+03	N/A
S961002425	F	Sulfur - ICP-Fusion	ug/g	97.80	<1.00e-01	<5.20e+03	<5.18e+03	6.00e+03	6.00	97.10	3.02e+03	N/A
S961002425	F	Antimony - ICP-Fusion	ug/g	94.60	<5.00e-02	<1.21e+03	<1.19e+03	N/A	N/A	97.80	1.02e+03	N/A
S961002425	F	Selenium - ICP-Fusion	ug/g	99.40	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	97.80	1.02e+03	N/A
S961002425	F	Silicon - ICP-Fusion	ug/g	95.20	<5.00e-02	<2.91e+03	<9.89e+02	N/A	N/A	95.10	1.02e+03	N/A
S961002425	F	Samarium - ICP-Fusion	ug/g	103.0	<1.00e-01	<2.02e+03	<1.98e+03	N/A	N/A	102.9	1.01e+03	N/A
S961002425	F	Strontium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.02e+03	<1.98e+03	N/A	N/A	102.9	1.01e+03	N/A
S961002425	F	Tantalum - ICP-Fusion	ug/g	97.20	<1.00e-02	<2.02e+02	<1.98e+02	N/A	N/A	95.40	202.0	N/A
S961002425	F	Thallium - ICP-Fusion	ug/g	98.40	<2.00e-01	<4.05e+03	<3.94e+03	N/A	N/A	95.40	1.05e+03	N/A
S961002425	F	Uranium - ICP-Fusion	ug/g	95.30	<5.00e-01	<1.01e+04	<9.89e+03	N/A	N/A	94.50	1.01e+04	N/A
S961002425	F	Vanadium - ICP-Fusion	ug/g	100.6	<5.00e-02	<1.01e+03	<9.89e+02	N/A	N/A	97.50	1.01e+03	N/A
S961002425	F	Zinc - ICP-Fusion	ug/g	99.60	3.20e-02	8.13e+02	524.0	668.3	43.2	96.00	202.0	N/A

Sample#	R#	Analyte	Unit	Standard X	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002445	F	Zirconium - ICP-Fusion	ug/g	99.33	< 1.00e-02	< 2.02e-02	< 1.98e-02	n/a	n/a	98.50	202.0	n/a
S96T002445	F	Cobalt-60 by GEA	ug/g	93.30	< 2.62e-02	< 3.36e-02	< 3.75e-02	n/a	n/a	n/a	3.40e-02	n/a
S96T002445	F	Cesium-137 by GEA	ug/g	96.63	< 2.18e-02	< 1.54e-02	< 1.77e-02	165.8	13.9	n/a	1.42e-01	0.350
S96T002445	F	Europium-154 by GEA	ug/g	n/a	< 6.24e-02	< 1.42e-01	< 1.52e-01	n/a	n/a	n/a	1.42e-01	n/a
S96T002445	F	Europium-155 by GEA	ug/g	n/a	< 3.74e-02	< 4.20e-01	< 4.54e-01	n/a	n/a	n/a	4.20e-01	n/a
S96T002445	F	Americium-241 by GEA	ug/g	n/a	< 1.58e-01	< 1.101	< 1.17e0	n/a	n/a	n/a	1.101	n/a
S96T002445	F	Alpha of Digested Solid	ug/g	115.6	< 9.50e-03	1.33e-01	1.48e-01	1.41e-01	10.7	99.72	2.35e-02	2.39e-01
S96T002471	A	Silver - ICP-Acid Digest	ug/g	87.90	< 1.00e-02	12.80	12.70	12.75	0.78	86.20	4.580	n/a
S96T002471	A	Aluminum - ICP-Acid Digest	ug/g	86.00	< 8.00e-02	1.22e+04	1.37e+04	1.29e+04	7.11	160.1	22.90	n/a
S96T002471	A	Arsenic - ICP-Acid Digest	ug/g	87.00	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	89.80	45.80	n/a
S96T002471	A	Boron - ICP-Acid Digest	ug/g	94.20	< 3.75e-01	< 41.20	< 40.10	40.65	2.71	91.10	22.90	n/a
S96T002471	A	Barium - ICP-Acid Digest	ug/g	87.40	< 3.00e-02	< 22.90	< 2.26e1	n/a	n/a	89.80	22.90	n/a
S96T002471	A	Beryllium - ICP-Acid Digest	ug/g	92.00	< 3.00e-03	< 2.290	< 2.26e0	n/a	n/a	94.00	45.80	n/a
S96T002471	A	Bismuth - ICP-Acid Digest	ug/g	83.00	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	89.40	45.80	n/a
S96T002471	A	Calcium - ICP-Acid Digest	ug/g	93.40	< 6.03e-01	3.36e+02	3.10e+02	323.0	8.05	84.18	2.580	n/a
S96T002471	A	Cadmium - ICP-Acid Digest	ug/g	81.40	< 3.00e-03	6.170	6.260	6.215	1.45	95.12	2.580	n/a
S96T002471	A	Cerium - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	94.00	45.80	n/a
S96T002471	A	Cobalt - ICP-Acid Digest	ug/g	85.00	< 2.00e-02	< 9.160	< 9.03e0	n/a	n/a	88.00	9.160	n/a
S96T002471	A	Copper - ICP-Acid Digest	ug/g	84.20	< 1.00e-02	1.98e+03	1.76e+03	1.88e+03	19.6	97.65	4.580	n/a
S96T002471	A	Chromium - ICP-Acid Digest	ug/g	87.20	< 1.50e-02	12.30	11.80	12.05	4.15	80.02	22.90	n/a
S96T002471	A	Iron - ICP-Acid Digest	ug/g	87.40	< 1.78e-01	1.70e+02	1.70e+02	1.64e+02	9.17	101.6	22.90	n/a
S96T002471	A	Potassium - ICP-Acid Digest	ug/g	86.00	< 3.00e-01	1.58e+03	1.71e+03	1.64e+03	9.17	101.6	22.90	n/a
S96T002471	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	< 3.00e-02	< 2.690	< 2.69e1	n/a	n/a	91.80	22.90	n/a
S96T002471	A	Lithium - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	< 4.50	4.52e1	n/a	n/a	94.80	45.80	n/a
S96T002471	A	Magnesium - ICP-Acid Digest	ug/g	83.00	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	88.20	45.80	n/a
S96T002471	A	Manganese - ICP-Acid Digest	ug/g	81.20	< 1.00e-02	59.40	57.10	57.6	5.76	82.72	4.580	n/a
S96T002471	A	Molybdenum - ICP-Acid Digest	ug/g	83.20	< 3.00e-02	37.10	39.30	38.20	5.70	84.56	22.90	n/a
S96T002471	A	Sodium - ICP-Acid Digest	ug/g	80.60	< 1.00e-01	1.78e+05	1.70e+05	1.74e+05	4.60	215.6	45.80	n/a
S96T002471	A	Neodymium - ICP-Acid Digest	ug/g	88.40	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	92.80	45.80	n/a
S96T002471	A	Nickel - ICP-Acid Digest	ug/g	89.00	< 2.00e-02	89.50	97.00	93.25	8.04	87.44	9.160	n/a
S96T002471	A	Phosphorus - ICP-Acid Digest	ug/g	89.00	< 2.00e-01	4.43e+03	3.68e+03	4.06e+03	18.5	54.14	91.60	n/a
S96T002471	A	Selenium - ICP-Acid Digest	ug/g	78.00	< 1.00e-01	50.00	44.52e1	n/a	n/a	82.94	45.80	n/a
S96T002471	A	Silver - ICP-Acid Digest	ug/g	82.20	< 2.80e-01	4.40e+03	4.69e+03	4.56e+03	3.15	60.10	45.80	n/a
S96T002471	A	Strontium - ICP-Acid Digest	ug/g	84.20	< 6.00e-02	< 27.50	< 2.71e1	n/a	n/a	90.80	27.50	n/a
S96T002471	A	Tantalum - ICP-Acid Digest	ug/g	82.40	< 1.00e-01	< 4.50	4.52e1	n/a	n/a	85.60	45.80	n/a
S96T002471	A	Vanadium - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	1.81e+02	1.71e+02	176.0	5.68	79.84	22.90	n/a
S96T002471	A	Zinc - ICP-Acid Digest	ug/g	86.80	< 1.00e-01	< 45.80	44.52e1	n/a	n/a	88.20	45.80	n/a
S96T002471	A	Titanium - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 4.580	44.52e0	n/a	n/a	89.60	4.580	n/a
S96T002471	A	Tungsten - ICP-Acid Digest	ug/g	81.00	< 2.00e-01	< 91.60	< 9.03e1	n/a	n/a	83.80	91.60	n/a
S96T002471	A	Thallium - ICP-Acid Digest	ug/g	78.00	< 2.00e-01	< 2.29e2	< 2.26e2	n/a	n/a	88.80	229.0	n/a
S96T002471	A	Uranium - ICP-Acid Digest	ug/g	84.90	< 5.00e-02	< 24.90	< 2.49e1	n/a	n/a	87.00	24.90	n/a
S96T002471	A	Vanadium - ICP-Acid Digest	ug/g	84.60	< 5.00e-02	< 22.90	< 2.26e1	n/a	n/a	84.30	22.90	n/a
S96T002471	A	Zinc - ICP-Acid Digest	ug/g	79.20	< 5.00e-02	< 4.580	44.52e0	n/a	n/a	94.60	4.580	n/a
S96T002471	A	Fluoride - ICP-Acid Digest	ug/g	90.60	< 1.00e-02	< 4.580	< 4.52e0	n/a	n/a	n/a	96.68	n/a
S96T002480	U	Fluoride - IC-Dioxex 40001/4500	ug/g	98.98	< 1.00e-02	< 96.70	< 9.39e1	n/a	n/a	n/a	96.68	n/a
S96T002480	U	Chloride - IC-Dioxex 40001/4500	ug/g	100.8	< 1.70e-02	4.00e+03	4.14e+03	4.07e+03	3.44	n/a	126.4	n/a
S96T002480	U	Nitrate - IC - Dioxex 40001/4500	ug/g	94.47	< 1.07e-01	4.40e+04	4.49e+04	4.44e+04	2.02	n/a	795.8	n/a
S96T002480	U	Bromide by Ion Chromatograph	ug/g	93.91	< 1.26e-01	< 9.37e+02	< 9.10e2	n/a	n/a	n/a	937.3	n/a
S96T002480	U	Nitrate by IC-Dioxex 40001/4500	ug/g	95.77	< 1.40e-01	1.98e+05	1.89e+05	1.94e+05	4.65	n/a	1.04e+03	n/a
S96T002480	U	Phosphate - IC-Dioxex 40001/4500	ug/g	93.77	< 1.19e-01	1.45e+04	1.58e+04	1.50e+04	6.67	n/a	886.4	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
SS61002480	W	Sulfate by IC-Dionex4000i/7500	ug/g	97.3	<1.35e-01	1.86e-04	1.82e-04	1.84e-04	1.0	IV/8	1.01e+03	IV/8
SS61002480	W	Ortate by IC - Dionex 4000i	ug/g	103.0	<1.05e-01	5.79e+03	5.14e+03	5.47e+03	11.9	IV/8	781.1	IV/8

Tab. 1. Data Summary Report
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Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002337	F	Bulk Density of Sample	g/mL	N/A	N/A	1.650	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002338	F	DSC Exotherm Dry	Joules/g	114.6	N/A	61.00	64.80	62.90	6.04	N/A	N/A	N/A
S961002338	F	DSC Exotherm Dry	Calculated	N/A	N/A	1.08e+02	114.2	110.8	6.04	N/A	N/A	N/A
S961002338	F	% Water by IGA using Mettler	%	98.92	N/A	42.94	43.60	43.27	1.53	N/A	N/A	N/A
S961002338	F	TIC by Acid/Coulometry	ug/g	97.18	1.600	1.28e+04	1.35e+04	1.20e+04	12.4	N/A	5.000	N/A
S961002338	F	IOC by Persulfate/Coulometry	ug/g	92.57	1.300	1.01e+04	1.03e+04	1.02e+04	1.96	N/A	175.0	N/A
S961002446	F	Silver - ICP-Fusion	ug/g	98.20	< 1.00e-02	< 1.75e+03	< 1.75e+03	< 1.75e+03	0.59	75.70	40.00	N/A
S961002446	F	Aluminum - ICP-Fusion	ug/g	98.20	< 3.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	0.59	95.60	876.0	N/A
S961002446	F	Aluminum - ICP-Fusion	ug/g	101.8	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	98.00	1.75e+03	N/A
S961002446	F	Boron - ICP-Fusion	ug/g	102.2	< 3.00e-02	< 8.76e+02	< 8.76e+02	< 8.76e+02	N/A	98.00	876.0	N/A
S961002446	F	Boron - ICP-Fusion	ug/g	101.6	< 3.00e-02	< 8.76e+02	< 8.76e+02	< 8.76e+02	N/A	99.50	876.0	N/A
S961002446	F	Barium - ICP-Fusion	ug/g	104.4	< 3.00e-03	< 87.60	< 87.60	< 87.60	N/A	97.80	1.75e+03	N/A
S961002446	F	Beryllium - ICP-Fusion	ug/g	100.8	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	102.4	1.75e+03	N/A
S961002446	F	Bismuth - ICP-Fusion	ug/g	102.2	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	97.80	87.60	N/A
S961002446	F	Calcium - ICP-Fusion	ug/g	100.6	< 3.00e-03	< 87.60	< 87.60	< 87.60	N/A	95.40	351.0	N/A
S961002446	F	Calcium - ICP-Fusion	ug/g	100.6	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	97.40	175.0	N/A
S961002446	F	Cobalt - ICP-Fusion	ug/g	98.82	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Chromium - ICP-Fusion	ug/g	101.8	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Copper - ICP-Fusion	ug/g	101.2	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Iron - ICP-Fusion	ug/g	101.2	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Potassium - ICP-Fusion	ug/g	101.4	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Potassium - ICP-Fusion	ug/g	102.8	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Lanthanum - ICP-Fusion	ug/g	102.8	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	100.7	876.0	N/A
S961002446	F	Lithium - ICP-Fusion	ug/g	97.80	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Magnesium - ICP-Fusion	ug/g	97.80	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Manganese - ICP-Fusion	ug/g	98.80	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	93.40	175.0	N/A
S961002446	F	Molybdenum - ICP-Fusion	ug/g	98.80	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	93.40	175.0	N/A
S961002446	F	Sodium - ICP-Fusion	ug/g	101.2	< 1.00e-02	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	93.40	175.0	N/A
S961002446	F	Neodymium - ICP-Fusion	ug/g	100.2	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Nickel - ICP-Fusion	ug/g	100.4	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Phosphorus - ICP-Fusion	ug/g	102.6	< 2.00e-01	< 7.26e+03	< 7.26e+03	< 7.26e+03	N/A	93.40	175.0	N/A
S961002446	F	Lead - ICP-Fusion	ug/g	97.80	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Sulfur - ICP-Fusion	ug/g	99.40	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Antimony - ICP-Fusion	ug/g	99.40	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Selenium - ICP-Fusion	ug/g	99.40	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Silicon - ICP-Fusion	ug/g	95.20	< 1.00e-02	< 8.76e+02	< 8.76e+02	< 8.76e+02	N/A	93.40	175.0	N/A
S961002446	F	Samarium - ICP-Fusion	ug/g	103.0	< 1.00e-01	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Strontium - ICP-Fusion	ug/g	101.0	< 1.00e-02	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Titanium - ICP-Fusion	ug/g	97.20	< 1.00e-02	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	93.40	175.0	N/A
S961002446	F	Thallium - ICP-Fusion	ug/g	98.40	< 2.00e-01	< 3.26e+03	< 3.26e+03	< 3.26e+03	N/A	93.40	175.0	N/A
S961002446	F	Uranium - ICP-Fusion	ug/g	95.30	< 1.00e-01	< 8.76e+03	< 8.76e+03	< 8.76e+03	N/A	97.05	8.76e+03	N/A
S961002446	F	Vanadium - ICP-Fusion	ug/g	100.6	< 1.00e-02	< 8.76e+02	< 8.76e+02	< 8.76e+02	N/A	98.50	876.0	N/A
S961002446	F	Zinc - ICP-Fusion	ug/g	99.60	< 3.20e-02	< 9.49e+02	< 9.49e+02	< 9.49e+02	N/A	94.80	175.0	N/A
S961002446	F	Zirconium - ICP-Fusion	ug/g	99.00	< 1.00e-02	< 1.75e+03	< 1.75e+03	< 1.75e+03	N/A	98.50	175.0	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002446	F	Cobalt-60 by GEA	uCi/g	93.33	< 0.6e-02	< 3.55e-02	< 3.37e-2	n/a	n/a	n/a	3.50e-02	-
S961002446	F	Cesium-137 by GEA	uCi/g	96.63	< 0.10e-02	< 1.89e-02	< 1.65e-1	176.2	14.8	n/a	1.1e-01	0.40
S961002446	F	Europium-154 by GEA	uCi/g	n/a	< 6.44e-02	< 1.11e-01	< 1.59e-1	n/a	n/a	n/a	4.3e-01	n/a
S961002446	F	Europium-155 by GEA	uCi/g	n/a	< 5.37e-02	< 4.35e-01	< 4.08e-1	n/a	n/a	n/a	4.3e-01	n/a
S961002446	F	Americium-241 by GEA	uCi/g	n/a	< 1.38e-01	< 1.10	< 1.01e0	n/a	n/a	n/a	4.910	n/a
S961002446	A	Silver - ICP-Acid Digest	u/g	81.90	< 1.00e-02	< 14.00	< 15.80	13.50	7.45	n/a	24.50	n/a
S961002472	A	Aluminum - ICP-Acid Digest	u/g	86.00	< 8.00e-02	< 1.32e-01	< 1.42e-04	1.37e-04	7.30	n/a	49.00	n/a
S961002472	A	Arscopic - ICP-Acid Digest	u/g	87.00	< 1.00e-01	< 4.30	< 4.70e1	n/a	n/a	n/a	24.50	n/a
S961002472	A	Boron - ICP-Acid Digest	u/g	84.20	< 3.20e-01	< 4.30	< 3.640	44.85	6.91	n/a	24.50	n/a
S961002472	A	Barium - ICP-Acid Digest	u/g	84.20	< 5.00e-02	< 3.450	< 3.25e1	n/a	n/a	n/a	24.50	n/a
S961002472	A	Beryllium - ICP-Acid Digest	u/g	84.00	< 1.00e-01	< 6.70e-02	< 4.67e0	n/a	n/a	n/a	24.50	n/a
S961002472	A	Bismuth - ICP-Acid Digest	u/g	84.00	< 5.00e-01	< 2.70e-02	< 4.67e0	305.5	31.9	n/a	49.00	n/a
S961002472	A	Calcium - ICP-Acid Digest	u/g	81.40	< 5.00e-01	< 2.70e-02	< 4.67e0	6.10	3.13	n/a	24.50	n/a
S961002472	A	Cadmium - ICP-Acid Digest	u/g	81.40	< 1.00e-01	< 5.90e-02	< 6.10	n/a	n/a	n/a	49.00	n/a
S961002472	A	Cerium - ICP-Acid Digest	u/g	81.20	< 1.00e-01	< 4.90	< 4.70e0	n/a	n/a	n/a	49.00	n/a
S961002472	A	Cobalt - ICP-Acid Digest	u/g	85.00	< 1.00e-02	< 9.810	< 9.41e0	n/a	n/a	n/a	49.00	n/a
S961002472	A	Chromium - ICP-Acid Digest	u/g	84.20	< 1.00e-02	< 2.24e-03	< 2.22e-03	2.24e-03	1.79	n/a	49.00	n/a
S961002472	A	Copper - ICP-Acid Digest	u/g	87.40	< 1.50e-01	< 13.10	< 15.50	14.30	16.8	n/a	49.00	n/a
S961002472	A	Crossium - ICP-Acid Digest	u/g	87.40	< 1.70e-01	< 1.89e-02	< 2.08	1.01	10.1	n/a	24.50	n/a
S961002472	A	Crossium - ICP-Acid Digest	u/g	88.00	< 5.00e-02	< 1.44e-03	< 1.81e-03	1.72e-03	9.86	n/a	24.50	n/a
S961002472	A	Lanthanum - ICP-Acid Digest	u/g	88.60	< 5.00e-02	< 24.50	< 23.8e1	n/a	n/a	n/a	24.50	n/a
S961002472	A	Lithium - ICP-Acid Digest	u/g	92.00	< 1.00e-01	< 4.900	< 4.70e0	n/a	n/a	n/a	49.00	n/a
S961002472	A	Magnesium - ICP-Acid Digest	u/g	83.00	< 1.00e-01	< 4.90	< 4.70e1	n/a	n/a	n/a	49.00	n/a
S961002472	A	Manganese - ICP-Acid Digest	u/g	81.80	< 1.00e-02	< 37.30	< 70.60	67.45	9.34	n/a	49.00	n/a
S961002472	A	Molybdenum - ICP-Acid Digest	u/g	83.20	< 5.00e-02	< 64.30	< 39.10	38.50	3.12	n/a	24.50	n/a
S961002472	A	Sodium - ICP-Acid Digest	u/g	101.8	< 7.77e-01	< 1.83e-05	< 1.85e-05	1.84e-05	1.09	n/a	49.00	n/a
S961002472	A	Nickel - ICP-Acid Digest	u/g	88.60	< 1.00e-01	< 4.90	< 4.70e1	n/a	n/a	n/a	49.00	n/a
S961002472	A	Nickel - ICP-Acid Digest	u/g	83.60	< 2.00e-02	< 95.40	< 103.0	99.20	7.66	n/a	98.10	n/a
S961002472	A	Phosphorus - ICP-Acid Digest	u/g	89.00	< 2.00e-01	< 5.15e-03	< 3.45e-03	3.30e-03	39.5	n/a	49.00	n/a
S961002472	A	Sulfur - ICP-Acid Digest	u/g	78.00	< 1.00e-01	< 4.90	< 51.40	n/a	n/a	n/a	49.00	n/a
S961002472	A	Antimony - ICP-Acid Digest	u/g	82.20	< 2.28e-01	< 5.89e-03	< 6.43e-03	6.16e-03	8.77	n/a	29.40	n/a
S961002472	A	Selenium - ICP-Acid Digest	u/g	84.20	< 6.00e-02	< 29.40	< 2.82e1	n/a	n/a	n/a	49.00	n/a
S961002472	A	Silicon - ICP-Acid Digest	u/g	91.20	< 1.00e-01	< 1.04e-02	< 122.0	113.0	15.9	n/a	24.50	n/a
S961002472	A	Samarium - ICP-Acid Digest	u/g	86.80	< 1.00e-01	< 4.90	< 4.70e1	n/a	n/a	n/a	49.00	n/a
S961002472	A	Strontium - ICP-Acid Digest	u/g	87.40	< 1.00e-02	< 4.900	< 4.70e0	n/a	n/a	n/a	49.00	n/a
S961002472	A	Titanium - ICP-Acid Digest	u/g	81.00	< 1.00e-02	< 4.900	< 4.70e0	n/a	n/a	n/a	49.00	n/a
S961002472	A	Thallium - ICP-Acid Digest	u/g	78.00	< 2.00e-01	< 98.10	< 9.41e1	n/a	n/a	n/a	98.10	n/a
S961002472	A	Uranium - ICP-Acid Digest	u/g	84.90	< 5.00e-01	< 2.45e-02	< 2.35e2	n/a	n/a	n/a	245.0	n/a
S961002472	A	Vanadium - ICP-Acid Digest	u/g	84.60	< 5.00e-02	< 24.50	< 2.35e1	n/a	n/a	n/a	24.50	n/a
S961002472	A	Zinc - ICP-Acid Digest	u/g	79.20	< 5.00e-02	< 24.50	< 27.70	25.95	13.5	n/a	49.00	n/a
S961002472	A	Zirconium - ICP-Acid Digest	u/g	90.60	< 1.00e-02	< 4.900	< 4.70e0	n/a	n/a	n/a	49.00	n/a
S961002481	M	Fluoride - IC-B lonex 4000/14500	u/g	97.46	< 1.30e-02	< 0.10e-02	< 9.31e1	n/a	n/a	n/a	101.3	n/a
S961002481	M	Chloride - IC-B lonex 4000/14500	u/g	99.11	< 0.70e-02	< 4.45e-03	< 4.94e-03	4.70e-03	10.4	n/a	133.5	n/a
S961002481	M	Nitrate - IC - lonex 4000/14500	u/g	93.00	< 1.07e-01	< 4.74e-04	< 5.52e-04	5.13e-04	15.2	n/a	833.9	n/a
S961002481	M	Bromide by Ion Chromatograph	u/g	94.61	< 1.26e-01	< 0.20e-05	< 9.02e2	n/a	n/a	n/a	981.9	n/a
S961002481	M	Nitrate by IC-B lonex4000/14500	u/g	94.96	< 1.40e-01	< 2.84e-05	< 1.97e5	n/a	n/a	n/a	1.09e-03	n/a
S961002481	M	Phosphate by IC-B lonex4000/14500	u/g	96.70	< 1.19e-01	< 1.23e-04	< 8.47e-03	1.04e-04	36.9	n/a	926.6	n/a
S961002481	M	Sulfate by IC-B lonex4000/14500	u/g	97.46	< 1.30e-01	< 1.86e-04	< 1.89e-04	1.87e-04	1.60	n/a	1.06e-03	n/a
S961002481	M	Oxalate by IC - lonex 4000/14500	u/g	101.8	< 1.05e-01	< 5.51e-03	< 5.24e-03	5.37e-03	5.02	n/a	818.4	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002482	W	Fluoride - IC-Dioxex 40001/4500	ug/g	97.46	<1.30e-02	<1.06e-02	<1.02e2	N/A	N/A	129.2	106.3	N/A
S961002482	W	Chloride - IC-Dioxex 40001/4500	ug/g	99.11	<1.30e-02	4.74e-03	4.65e+03	4.65e+03	4.73	95.06	139.0	N/A
S961002482	W	Nitrate - IC - Dioxex 40001/4500	ug/g	93.00	<1.07e-01	4.83e-04	5.16e+04	5.00e+04	6.61	101.3	874.9	N/A
S961002482	W	Bromide by Ion Chromatograph	ug/g	94.61	<1.26e-01	<8.7e2	<8.7e2	N/A	N/A	94.78	1.03e+03	N/A
S961002482	W	Nitrate by IC-Dioxex 40001/4500	ug/g	94.96	<1.00e-01	2.48e+05	2.44e+05	2.47e+05	0.81	105.7	1.14e+03	N/A
S961002482	W	Phosphate by IC-Dioxex 40001/4500	ug/g	94.96	<1.19e-01	6.57e+03	6.91e+03	6.74e+03	5.04	95.40	972.5	N/A
S961002482	W	Sulfate by IC-Dioxex 40001/4500	ug/g	97.46	<1.34e-01	1.33e+04	1.53e+04	1.58e+04	6.33	99.05	1.11e+03	N/A
S961002482	W	Oxalate by IC - Dioxex 40001	ug/g	101.8	<1.05e-01	5.49e+03	5.31e+03	5.50e+03	6.91	100.4	858.9	N/A

Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002440		Bulk Density of Sample	g/mL	N/A	N/A	1.840	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002441		DSC Exotherm using Mettler	Joules/g	114.6	N/A	65.70	86.50	76.10	27.3	N/A	N/A	N/A
S961002441		% Water by TGA using Mettler	%	98.92	N/A	97.17	31.17	112.3	27.3	N/A	N/A	N/A
S961002441		TIC by Acid/Coulometry	ug/g	98.94	1.100	9.41e-03	0.12e+04	1.03e+03	17.4	105.0	5.000	N/A
S961002441		TOC by Persulfate/Coulometry	ug/g	91.67	<1.00e-02	9.32e+03	9.41e+03	9.46e+03	3.51	94.60	40.00	N/A
S961002447	F	Silver - ICP-Fusion	ug/g	98.20	<1.00e-02	<2.03e+03	<2.00e2	N/A	N/A	95.90	2.03e+03	N/A
S961002447	F	Aluminum - ICP-Fusion	ug/g	101.8	<1.00e-01	<2.03e+03	<2.00e3	1.86e+04	1.71e+04	98.30	1.02e+03	N/A
S961002447	F	Arsenic - ICP-Fusion	ug/g	102.2	<1.00e-02	<1.02e+03	<1.00e2	N/A	N/A	99.30	1.02e+03	N/A
S961002447	F	Boron - ICP-Fusion	ug/g	101.6	<1.00e-02	<1.02e+03	<1.00e2	N/A	N/A	99.30	1.02e+03	N/A
S961002447	F	Beryllium - ICP-Fusion	ug/g	104.4	<1.00e-03	<1.02e+03	<1.00e2	N/A	N/A	99.30	1.02e+03	N/A
S961002447	F	Bismuth - ICP-Fusion	ug/g	100.8	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	97.60	2.03e+03	N/A
S961002447	F	Calcium - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	101.7	2.03e+03	N/A
S961002447	F	Cadmium - ICP-Fusion	ug/g	100.6	<1.00e-03	<1.02e+03	<1.00e2	N/A	N/A	96.80	1.02e+03	N/A
S961002447	F	Cerium - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	97.30	2.03e+03	N/A
S961002447	F	Cobalt - ICP-Fusion	ug/g	98.80	<1.00e-02	<4.07e+02	<1.00e2	N/A	N/A	93.70	40.0	N/A
S961002447	F	Chromium - ICP-Fusion	ug/g	100.8	<1.00e-02	<3.06e+03	<2.00e2	3.01e+03	3.32	96.20	203.0	N/A
S961002447	F	Copper - ICP-Fusion	ug/g	102.0	<1.00e-02	<3.06e+03	<2.00e2	N/A	N/A	100.7	203.0	N/A
S961002447	F	Iron - ICP-Fusion	ug/g	103.4	<1.00e-02	<1.02e+03	<1.00e2	N/A	N/A	103.4	1.02e+03	N/A
S961002447	F	Potassium - ICP-Fusion	ug/g	101.6	<1.00e-01	7.34e+06	N/A	N/A	N/A	N/A	1.02e+04	N/A
S961002447	F	Lanthanum - ICP-Fusion	ug/g	102.8	<1.00e-02	<1.02e+03	<1.00e2	N/A	N/A	102.2	1.02e+03	N/A
S961002447	F	Lithium - ICP-Fusion	ug/g	102.0	<1.00e-02	<2.03e+03	<2.00e2	N/A	N/A	93.70	203.0	N/A
S961002447	F	Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-01	<2.03e+03	<2.00e2	N/A	N/A	92.70	2.03e+03	N/A
S961002447	F	Manganese - ICP-Fusion	ug/g	100.6	<1.00e-02	<2.03e+03	<2.00e2	N/A	N/A	98.50	203.0	N/A
S961002447	F	Molybdenum - ICP-Fusion	ug/g	98.80	<1.00e-02	<2.03e+03	<1.00e2	N/A	N/A	93.70	1.02e+03	N/A
S961002447	F	Niodymium - ICP-Fusion	ug/g	101.2	<2.090	2.54e+05	2.44e+05	2.49e+05	4.02	84.00	2.03e+03	N/A
S961002447	F	Sodium - ICP-Fusion	ug/g	109.0	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	112.4	2.03e+03	N/A
S961002447	F	Neodymium - ICP-Fusion	ug/g	109.4	<1.00e-01	<1.35e+03	<1.00e3	1.37e+03	2.92	97.00	40.0	N/A
S961002447	F	Nickel - ICP-Fusion	ug/g	102.6	<1.00e-01	<4.07e+03	<3.00e3	N/A	N/A	116.8	4.07e+03	N/A
S961002447	F	Lead - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	96.60	2.03e+03	N/A
S961002447	F	Selenium - ICP-Fusion	ug/g	97.80	<1.00e-01	<1.22e+03	<1.00e3	5.37e+03	6.46	91.70	2.03e+03	N/A
S961002447	F	Antimony - ICP-Fusion	ug/g	94.60	<1.00e-02	<1.22e+03	<1.00e3	N/A	N/A	90.20	1.22e+03	N/A
S961002447	F	Silver - ICP-Fusion	ug/g	99.40	<1.00e-01	<2.03e+03	<1.00e2	N/A	N/A	88.20	2.03e+03	N/A
S961002447	F	Silicon - ICP-Fusion	ug/g	95.20	<1.00e-02	<1.02e+03	<1.00e2	N/A	N/A	92.20	1.02e+03	N/A
S961002447	F	Samarium - ICP-Fusion	ug/g	103.0	<1.00e-01	<2.03e+03	<2.00e3	N/A	N/A	102.7	2.03e+03	N/A
S961002447	F	Strontium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.03e+03	<2.00e2	N/A	N/A	99.30	203.0	N/A
S961002447	F	Titanium - ICP-Fusion	ug/g	97.20	<1.00e-02	<2.03e+03	<2.00e2	N/A	N/A	93.40	203.0	N/A

WHC-SD-WM-DP-189, REV. I

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPP %	Spk Rec %	Det Limit	Count Err%
S961002447	F	Thallium - ICP-Fusion	ug/g	98.40	< 2.00e-01	< 2.07e+03	< 3.99e3	N/A	N/A	96.10	4.07e+03	N/A
S961002447	F	Vanadium - ICP-Fusion	ug/g	95.30	< 5.00e-01	< 1.02e+04	< 9.98e3	N/A	N/A	92.45	1.02e+04	N/A
S961002447	F	Vanadium - ICP-Fusion	ug/g	100.60	< 5.00e-02	< 1.02e+03	< 9.98e3	N/A	N/A	98.00	1.02e+03	N/A
S961002447	F	Zinc - ICP-Fusion	ug/g	99.60	3.20e-02	6.20e+02	403.0	511.5	42.4	94.80	203.0	N/A
S961002447	F	Zinc - ICP-Fusion	ug/g	99.00	< 1.00e-02	< 2.03e+02	< 2.00e2	N/A	N/A	97.60	203.0	N/A
S961002447	F	Cobalt - 60 by BEA	ug/g	95.33	< 2.62e-02	< 3.18e+02	< 3.15e+2	N/A	N/A	N/A	3.20e-02	N/A
S961002447	F	Cesium-137 by BEA	ug/g	96.83	< 2.18e-02	1.88e+02	221.0	204.7	16.1	N/A	N/A	0.500
S961002447	F	Europium-153 by BEA	ug/g	N/A	< 6.24e-02	< 1.43e+01	< 1.70e-1	N/A	N/A	N/A	1.43e-01	N/A
S961002447	F	Europium-153 by BEA	ug/g	N/A	< 5.37e-02	< 4.72e-01	< 5.07e-1	N/A	N/A	N/A	4.72e-01	N/A
S961002447	F	Alpha of dissolved Solid	ug/g	115.6	< 9.50e-03	1.47e+01	1.54e-01	1.50e-01	4.65	N/A	2.30e-02	2.28e+01
S961002473	A	Silver - ICP-Acid Digest	ug/g	81.90	< 1.00e-02	14.40	15.40	16.90	6.71	N/A	21.70	N/A
S961002473	A	Aluminum - ICP-Acid Digest	ug/g	86.00	8.00e-02	1.61e+04	1.44e+04	1.52e+04	11.1	N/A	43.40	N/A
S961002473	A	Arsenic - ICP-Acid Digest	ug/g	87.20	3.50e-01	< 99.90	106.0	103.0	5.93	N/A	21.70	N/A
S961002473	A	Boron - ICP-Acid Digest	ug/g	87.20	< 5.00e-02	< 2.170	< 2.46e1	N/A	N/A	N/A	21.70	N/A
S961002473	A	Barium - ICP-Acid Digest	ug/g	83.00	< 1.00e-01	< 43.40	< 4.91e1	N/A	N/A	N/A	43.40	N/A
S961002473	A	Beryllium - ICP-Acid Digest	ug/g	91.40	< 5.00e-01	3.22e+02	403.0	363.5	21.7	N/A	43.40	N/A
S961002473	A	Calcium - ICP-Acid Digest	ug/g	81.40	< 5.00e-01	< 8.40	< 7.050	N/A	N/A	N/A	21.70	N/A
S961002473	A	Cadmium - ICP-Acid Digest	ug/g	85.00	< 1.00e-02	< 8.340	< 4.91e1	N/A	N/A	N/A	43.40	N/A
S961002473	A	Cerium - ICP-Acid Digest	ug/g	84.20	< 1.00e-02	2.12e+03	2.17e+03	2.56e+03	26.9	N/A	4.340	N/A
S961002473	A	Chromium - ICP-Acid Digest	ug/g	87.20	1.50e-01	3.01e+03	3.40	32.05	17.8	N/A	4.340	N/A
S961002473	A	Copper - ICP-Acid Digest	ug/g	87.40	7.70e-01	3.01e+03	1.79e+03	1.88e+03	13.0	N/A	21.70	N/A
S961002473	A	Potassium - ICP-Acid Digest	ug/g	86.00	< 5.00e-01	< 2.170	< 2.46e1	N/A	N/A	N/A	21.70	N/A
S961002473	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	< 5.00e-02	< 4.340	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Lithium - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	< 4.340	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Magnesium - ICP-Acid Digest	ug/g	83.00	< 1.00e-01	< 43.40	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Manganese - ICP-Acid Digest	ug/g	81.80	< 1.00e-02	1.01e+02	113.0	107.6	11.9	N/A	2.340	N/A
S961002473	A	Molybdenum - ICP-Acid Digest	ug/g	83.20	< 5.00e-02	45.60	40.30	43.95	12.5	N/A	2.340	N/A
S961002473	A	Nickel - ICP-Acid Digest	ug/g	101.8	7.70e-01	1.89e+03	2.09e+03	1.97e+03	8.12	N/A	4.340	N/A
S961002473	A	Neodymium - ICP-Acid Digest	ug/g	88.60	< 1.00e-01	< 43.40	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Nickel - ICP-Acid Digest	ug/g	83.60	< 2.00e-02	1.18e+02	102.0	110.0	14.5	N/A	4.340	N/A
S961002473	A	Phosphorus - ICP-Acid Digest	ug/g	89.00	< 2.00e-01	2.12e+03	4.67e+03	3.40e+03	75.1	N/A	8.480	N/A
S961002473	A	Lead - ICP-Acid Digest	ug/g	78.00	< 1.00e-01	71.30	72.10	71.70	1.12	N/A	43.40	N/A
S961002473	A	Sulfur - ICP-Acid Digest	ug/g	82.20	2.28e-01	5.19e+03	5.63e+03	5.41e+03	8.13	N/A	43.40	N/A
S961002473	A	Antimony - ICP-Acid Digest	ug/g	84.20	< 5.00e-02	< 26.00	< 4.91e1	N/A	N/A	N/A	26.00	N/A
S961002473	A	Selenium - ICP-Acid Digest	ug/g	82.40	< 1.00e-01	< 43.40	< 4.91e1	N/A	N/A	N/A	43.40	N/A
S961002473	A	Silicon - ICP-Acid Digest	ug/g	91.20	1.00e-01	1.88e+02	168.0	178.0	11.2	N/A	21.70	N/A
S961002473	A	Samarium - ICP-Acid Digest	ug/g	86.80	< 1.00e-01	< 43.40	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Strontium - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 4.340	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Titanium - ICP-Acid Digest	ug/g	81.00	< 1.00e-02	< 4.340	< 4.91e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Thallium - ICP-Acid Digest	ug/g	78.00	< 2.00e-01	< 86.80	< 9.82e1	N/A	N/A	N/A	86.80	N/A
S961002473	A	Uranium - ICP-Acid Digest	ug/g	84.90	< 5.00e-01	< 2.17e+02	< 2.46e2	N/A	N/A	N/A	21.70	N/A
S961002473	A	Vanadium - ICP-Acid Digest	ug/g	84.60	< 5.00e-02	< 21.70	< 2.46e1	N/A	N/A	N/A	4.340	N/A
S961002473	A	Zinc - ICP-Acid Digest	ug/g	79.20	5.60e-02	26.00	24.30	25.15	6.76	N/A	4.340	N/A
S961002473	A	Zirconium - ICP-Acid Digest	ug/g	90.60	< 1.00e-02	< 4.340	< 4.91e1	N/A	N/A	N/A	4.340	N/A

Table 1. Data Summary Report
U-102

CORE NUMBER: 143
SEGMENT #: 4

SEGMENT PORTION: U, Upper Half of Segment

Sample #	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Error
S961002243		Bulk Density of Sample	g/mL	n/a	n/a	1.60	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002243		DSC Exotherm DTY Calculated	Joules/g Dry	n/a	n/a	0.00e+00	15.45	7.725	n/a	n/a	n/a	n/a
S961002244		DSC Exotherm on Perkin Elmer	Joules/g	98.84	n/a	0.00e+00	11.70	5.850	n/a	n/a	n/a	n/a
S961002244		* Water by TGA on Perkin Elmer	%	76.46	n/a	28.10	18.61	18.61	n/a	n/a	n/a	n/a
S961002244	1	* Water by TGA on Perkin Elmer	%	76.46	n/a	28.10	18.61	18.61	n/a	n/a	n/a	n/a
S961002244		TIC by AGLC/Galvometry	ug/g	94.84	1.000	1.77e+03	1.88e+04	1.82e+04	n/a	n/a	5.00e-01	n/a
S961002244		TIC by AGLC/Galvometry	ug/g	94.84	5.000	1.77e+03	9.34e+03	9.34e+03	2.20	n/a	40.00	n/a
S961002248	F	Aluminum - ICP-Fusion	ug/g	76.00	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.1	2.11e+03	n/a
S961002248	F	Aluminum - ICP-Fusion	ug/g	76.00	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.1	2.11e+03	n/a
S961002248	F	Aluminum - ICP-Fusion	ug/g	102.3	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.1	2.11e+03	n/a
S961002248	F	Boron - ICP-Fusion	ug/g	102.3	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.1	2.11e+03	n/a
S961002248	F	Boron - ICP-Fusion	ug/g	102.3	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.1	2.11e+03	n/a
S961002248	F	Beryllium - ICP-Fusion	ug/g	104.0	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	104.0	2.11e+03	n/a
S961002248	F	Beryllium - ICP-Fusion	ug/g	104.0	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	104.0	2.11e+03	n/a
S961002248	F	Calcium - ICP-Fusion	ug/g	101.2	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	101.2	2.11e+03	n/a
S961002248	F	Calcium - ICP-Fusion	ug/g	101.2	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	101.2	2.11e+03	n/a
S961002248	F	Cadmium - ICP-Fusion	ug/g	100.8	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.8	2.11e+03	n/a
S961002248	F	Cadmium - ICP-Fusion	ug/g	104.0	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	104.0	2.11e+03	n/a
S961002248	F	Cerium - ICP-Fusion	ug/g	99.00	<2.00e-02	2.11e+02	1.64e+02	n/a	n/a	99.00	2.11e+03	n/a
S961002248	F	Cobalt - ICP-Fusion	ug/g	101.0	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	101.0	2.11e+03	n/a
S961002248	F	Chromium - ICP-Fusion	ug/g	100.6	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.6	2.11e+03	n/a
S961002248	F	Copper - ICP-Fusion	ug/g	103.4	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	103.4	2.11e+03	n/a
S961002248	F	Iron - ICP-Fusion	ug/g	100.4	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.4	2.11e+03	n/a
S961002248	F	Potassium - ICP-Fusion	ug/g	102.8	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	102.8	2.11e+03	n/a
S961002248	F	Lanthanum - ICP-Fusion	ug/g	100.6	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.6	2.11e+03	n/a
S961002248	F	Lithium - ICP-Fusion	ug/g	98.20	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	98.20	2.11e+03	n/a
S961002248	F	Magnesium - ICP-Fusion	ug/g	101.0	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	101.0	2.11e+03	n/a
S961002248	F	Manganese - ICP-Fusion	ug/g	99.80	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	99.80	2.11e+03	n/a
S961002248	F	Molybdenum - ICP-Fusion	ug/g	99.80	<5.00e-02	2.11e+02	1.64e+02	n/a	n/a	99.80	2.11e+03	n/a
S961002248	F	Sodium - ICP-Fusion	ug/g	109.4	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	109.4	2.11e+03	n/a
S961002248	F	Strontium - ICP-Fusion	ug/g	100.6	<2.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.6	2.11e+03	n/a
S961002248	F	Titanium - ICP-Fusion	ug/g	101.2	<2.00e-02	2.11e+02	1.64e+02	n/a	n/a	101.2	2.11e+03	n/a
S961002248	F	Vanadium - ICP-Fusion	ug/g	100.8	<1.00e-02	2.11e+02	1.64e+02	n/a	n/a	100.8	2.11e+03	n/a
S961002248	F	Zinc - ICP-Fusion	ug/g	100.2	<3.70e-02	2.11e+02	1.64e+02	n/a	n/a	100.2	2.11e+03	n/a

WHC-SD-WM-DP-189, REV. I

22-aug-1996 12:23:04

A-0002-3

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Sok Rec %	Det Limit	Count Err%
5961002448	F	Zirconium - ICP-Fusion	ug/g	98.80	< 2.00e-02	< 2.11e-02	< 2.14e2	N/A	N/A	97.80	2.11e-01	N/A
5961002448	F	Cobalt - 10 by GEA	ug/g	104.8	< 3.26e-02	< 1.21e-01	< 1.00e-1	N/A	N/A	N/A	1.21e-01	N/A
5961002448	F	Cesium - 137 by GEA	ug/g	100.5	< 3.26e-02	< 1.21e-02	< 1.00e-1	172.3	0.58	N/A	N/A	0.790
5961002448	F	Europium - 15 by GEA	ug/g	N/A	< 3.26e-02	< 4.26e-01	< 4.35e-1	N/A	N/A	N/A	4.26e-01	N/A
5961002448	F	Europium - 15 by GEA	ug/g	N/A	< 3.26e-02	< 5.26e-01	< 5.26e-1	N/A	N/A	N/A	5.26e-01	N/A
5961002448	F	Americium - 241 by GEA	ug/g	N/A	< 3.26e-02	< 4.50e-02	< 3.65e-2	N/A	N/A	N/A	4.50e-01	N/A
5961002448	F	Silver - ICP-Acid Digest	ug/g	84.00	< 3.00e-02	< 1.80e-02	< 1.80e-02	13.40	30.9	89.80	5.160	N/A
5961002474	A	Aluminum - ICP-Acid Digest	ug/g	84.80	< 3.00e-02	< 1.32e-04	< 1.94e-04	1.64e+02	20.0	132.5	25.80	N/A
5961002474	A	Arsenic - ICP-Acid Digest	ug/g	84.80	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	94.40	5.160	N/A
5961002474	A	Boron - ICP-Acid Digest	ug/g	82.00	< 3.00e-02	< 5.20e-01	< 5.17e-1	51.9	19.8	93.34	25.80	N/A
5961002474	A	Barium - ICP-Acid Digest	ug/g	82.00	< 3.00e-02	< 2.50e-01	< 2.33e-1	N/A	N/A	91.40	25.80	N/A
5961002474	A	Beryllium - ICP-Acid Digest	ug/g	86.40	< 3.00e-02	< 2.50e-01	< 2.50e-1	N/A	N/A	99.80	2.580	N/A
5961002474	A	Bismuth - ICP-Acid Digest	ug/g	86.40	< 3.00e-02	< 3.13e-02	< 3.13e-2	N/A	N/A	96.00	5.160	N/A
5961002474	A	Calcium - ICP-Acid Digest	ug/g	86.20	< 3.00e-02	< 3.13e-02	< 3.13e-2	3.9	7.59	92.48	5.160	N/A
5961002474	A	Cadmium - ICP-Acid Digest	ug/g	85.40	< 3.00e-02	< 3.13e-02	< 3.13e-2	7.13	65.5	90.48	2.580	N/A
5961002474	A	Cerium - ICP-Acid Digest	ug/g	79.20	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	92.80	10.30	N/A
5961002474	A	Cobalt - ICP-Acid Digest	ug/g	86.40	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	92.80	10.30	N/A
5961002474	A	Chromium - ICP-Acid Digest	ug/g	86.40	< 3.00e-02	< 5.14e-01	< 4.77e-1	2.28e+03	100	101.5	5.160	N/A
5961002474	A	Copper - ICP-Acid Digest	ug/g	86.40	< 3.00e-02	< 1.80e-02	< 1.80e-2	5.83	27.5	91.42	5.160	N/A
5961002474	A	Iron - ICP-Acid Digest	ug/g	81.00	< 3.00e-02	< 1.50e-02	< 1.50e-2	1.88e+03	3.1	95.40	25.80	N/A
5961002474	A	Potassium - ICP-Acid Digest	ug/g	79.80	< 3.00e-02	< 3.13e-02	< 3.13e-2	N/A	N/A	95.40	25.80	N/A
5961002474	A	Lanthanum - ICP-Acid Digest	ug/g	81.80	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	90.00	5.160	N/A
5961002474	A	Lithium - ICP-Acid Digest	ug/g	81.80	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	90.00	5.160	N/A
5961002474	A	Magnesium - ICP-Acid Digest	ug/g	85.00	< 3.00e-02	< 3.13e-02	< 3.13e-2	187.3	19.2	89.54	5.160	N/A
5961002474	A	Manganese - ICP-Acid Digest	ug/g	84.00	< 3.00e-02	< 3.00e-02	< 3.00e-2	50.90	38.1	91.42	25.80	N/A
5961002474	A	Molybdenum - ICP-Acid Digest	ug/g	86.00	< 3.00e-02	< 2.81e-02	< 2.81e-2	1.63e+02	21.9	50.5	5.160	N/A
5961002474	A	Sodium - ICP-Acid Digest	ug/g	86.50	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	97.20	5.160	N/A
5961002474	A	Neodymium - ICP-Acid Digest	ug/g	86.50	< 3.00e-02	< 5.14e-01	< 4.77e-1	92.80	16.9	93.14	10.30	N/A
5961002474	A	Nickel - ICP-Acid Digest	ug/g	81.20	< 3.00e-02	< 1.80e-02	< 1.80e-2	1.44e+03	55.6	22.4	103.0	N/A
5961002474	A	Phosphorus - ICP-Acid Digest	ug/g	74.00	< 3.00e-02	< 5.20e-02	< 4.77e-2	N/A	N/A	86.04	5.160	N/A
5961002474	A	Lead - ICP-Acid Digest	ug/g	83.20	< 3.00e-02	< 2.81e-02	< 2.81e-2	3.76e+03	54.0	137.1	51.60	N/A
5961002474	A	Sulfur - ICP-Acid Digest	ug/g	80.80	< 3.00e-02	< 3.13e-02	< 3.13e-2	N/A	N/A	97.40	31.00	N/A
5961002474	A	Antimony - ICP-Acid Digest	ug/g	84.00	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	91.40	5.160	N/A
5961002474	A	Selenium - ICP-Acid Digest	ug/g	84.00	< 3.00e-02	< 5.14e-01	< 4.77e-1	108.0	3.70	89.28	25.80	N/A
5961002474	A	Samarium - ICP-Acid Digest	ug/g	81.00	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	92.00	5.160	N/A
5961002474	A	Strontium - ICP-Acid Digest	ug/g	84.00	< 3.00e-02	< 5.14e-01	< 4.77e-1	N/A	N/A	86.40	5.160	N/A
5961002474	A	Titanium - ICP-Acid Digest	ug/g	81.00	< 3.00e-02	< 1.03e-02	< 1.03e-2	N/A	N/A	89.40	60.00	N/A
5961002474	A	Thallium - ICP-Acid Digest	ug/g	84.20	< 3.00e-02	< 2.81e-02	< 2.81e-2	N/A	N/A	102.0	258.0	N/A
5961002474	A	Uranium - ICP-Acid Digest	ug/g	84.20	< 3.00e-02	< 3.13e-02	< 3.13e-2	N/A	N/A	91.40	25.80	N/A
5961002474	A	Vanadium - ICP-Acid Digest	ug/g	81.50	< 3.00e-02	< 5.14e-01	< 4.77e-1	29.70	37.9	89.78	5.160	N/A
5961002474	A	Zinc - ICP-Acid Digest	ug/g	84.20	< 3.00e-02	< 15.40e-01	< 15.40e-1	N/A	N/A	97.48	5.160	N/A
5961002474	A	Zirconium - ICP-Acid Digest	ug/g	84.20	< 3.00e-02	< 1.21e-02	< 1.21e-2	N/A	N/A	124.2	N/A	N/A
5961002483	W	Fluoride - IC-Bioxex 40001/4500	ug/g	95.83	< 3.00e-02	< 4.60e-02	< 4.60e-2	4.80e+03	7.60	94.30	162.4	N/A
5961002483	W	Chloride - IC-Bioxex 40001/4500	ug/g	97.87	< 3.00e-02	< 5.14e-02	< 5.14e-2	5.11e+04	13.1	106.1	1.03e+03	N/A
5961002483	W	Nitrate - IC - Dionex 40001/4500	ug/g	94.47	< 3.00e-02	< 1.21e-02	< 1.21e-2	N/A	N/A	98.94	1.20e+03	N/A
5961002483	W	Bromide by Ion Chromatograph	ug/g	93.76	< 3.00e-02	< 1.21e-02	< 1.21e-2	N/A	N/A	98.94	1.20e+03	N/A
5961002483	W	Nitrate by IC-Bioxex 40001/4500	ug/g	93.77	< 3.00e-02	< 2.17e-02	< 2.17e-2	2.20e+05	6.83	118.8	1.40e+03	N/A
5961002483	W	Phosphate by IC-Bioxex 40001/4500	ug/g	97.80	< 3.00e-02	< 2.81e-02	< 2.81e-2	9.36e+03	33.9	102.9	1.40e+03	N/A
5961002483	W	Sulfate by IC-Bioxex 40001/4500	ug/g	99.05	< 3.00e-02	< 5.00e-04	< 5.00e-04	2.98e+04	1.34	108.2	1.30e+03	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002483	W	Oxalate by IC - Dionex 40001	ug/g	102.4	<1.05e-01	8.55e+03	9.82e+03	9.18e+03	13.8	95.27	1.00e+03	N/A
L Lower Half of Segment: L Lower Half of Segment												
Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002446		Bulk Density of Sample	g/mL	N/A	N/A	1.610	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002447		DSC Exotherm Dry Calculated	Joules/g Dry	N/A	N/A	0.00e+00	104.0	52.00	200	N/A	N/A	N/A
S961002447		DSC Exotherm on Perkin Elmer	Joules/g	98.84	N/A	0.00e+00	57.20	28.60	200	N/A	N/A	N/A
S961002447		% Water by TGA on Perkin Elmer	%	98.46	N/A	46.82	43.20	45.01	8.04	N/A	N/A	N/A
S961002447		TIC by Acid/Coulometry	ug/g	100.2	1.000	1.31e+04	1.41e+04	1.36e+04	7.35	N/A	5.000	N/A
S961002447		TOC by Persulfate/Coulometry	ug/g	95.67	0.00e+00	1.03e+04	1.11e+04	1.07e+04	7.48	N/A	40.00	N/A
S961002449	F	Silver - ICP-Fusion	ug/g	98.40	<1.00e-02	2.25e+02	<2.37e2	N/A	N/A	49.50	225.0	N/A
S961002449	F	Aluminum - ICP-Fusion	ug/g	100.0	<1.00e-02	2.05e+04	2.13e+04	2.09e+04	3.83	N/A	97.50	1.12e+03
S961002449	F	Arsenic - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.25e+03	<1.18e3	N/A	N/A	97.30	2.25e+03	N/A
S961002449	F	Boron - ICP-Fusion	ug/g	102.2	<1.00e-02	<1.12e+03	<1.18e3	N/A	N/A	97.30	1.12e+03	N/A
S961002449	F	Barium - ICP-Fusion	ug/g	101.2	<1.00e-02	<1.12e+03	<1.18e3	N/A	N/A	99.00	1.12e+03	N/A
S961002449	F	Beryllium - ICP-Fusion	ug/g	104.2	<1.00e-01	<1.12e+03	<1.18e3	N/A	N/A	98.80	2.25e+03	N/A
S961002449	F	Bismuth - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	101.0	2.25e+03	N/A
S961002449	F	Calcium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	96.80	2.25e+03	N/A
S961002449	F	Cadmium - ICP-Fusion	ug/g	104.0	<1.00e-03	<1.12e+02	<1.18e2	N/A	N/A	97.80	2.25e+03	N/A
S961002449	F	Cerium - ICP-Fusion	ug/g	99.00	<1.00e-02	<4.50e+02	<4.7e2	N/A	N/A	93.70	450.0	N/A
S961002449	F	Cobalt - ICP-Fusion	ug/g	100.8	<1.00e-02	<3.52e+02	<3.61e+02	3.56e+02	2.52	N/A	225.0	N/A
S961002449	F	Chromium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.25e+02	<2.37e2	N/A	N/A	101.2	1.12e+03	N/A
S961002449	F	Copper - ICP-Fusion	ug/g	103.4	<1.00e-02	<1.12e+03	<1.18e3	N/A	N/A	102.0	1.12e+03	N/A
S961002449	F	Potassium - ICP-Fusion	ug/g	102.8	<1.00e-01	8.35e+06	N/A	N/A	N/A	93.90	1.12e+03	N/A
S961002449	F	Lanthanum - ICP-Fusion	ug/g	104.8	<1.00e-02	<1.12e+03	<1.18e3	N/A	N/A	92.40	2.25e+03	N/A
S961002449	F	Lithium - ICP-Fusion	ug/g	98.20	<1.00e-01	<2.25e+02	<2.37e2	N/A	N/A	97.80	1.12e+03	N/A
S961002449	F	Magnesium - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	97.80	1.12e+03	N/A
S961002449	F	Manganese - ICP-Fusion	ug/g	99.00	<1.00e-02	<2.25e+02	<2.37e2	N/A	N/A	93.70	1.12e+03	N/A
S961002449	F	Niobium - ICP-Fusion	ug/g	99.80	<1.00e-02	<1.12e+03	<1.18e3	N/A	N/A	135.2	2.25e+03	N/A
S961002449	F	Sodium - ICP-Fusion	ug/g	109.4	<2.150	<2.25e+03	2.54e+03	2.54e+03	1.18	N/A	2.25e+03	N/A
S961002449	F	Selenium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	97.00	2.25e+03	N/A
S961002449	F	Strontium - ICP-Fusion	ug/g	101.2	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	101.2	2.25e+03	N/A
S961002449	F	Tantalum - ICP-Fusion	ug/g	98.20	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	98.30	2.25e+03	N/A
S961002449	F	Vanadium - ICP-Fusion	ug/g	98.20	<1.00e-01	6.93e+03	7.29e+03	7.11e+03	5.06	N/A	2.25e+03	N/A
S961002449	F	Zinc - ICP-Fusion	ug/g	94.40	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	96.80	2.25e+03	N/A
S961002449	F	Selenium - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	90.70	2.25e+03	N/A
S961002449	F	Silicon - ICP-Fusion	ug/g	94.40	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	97.00	1.12e+03	N/A
S961002449	F	Samarium - ICP-Fusion	ug/g	102.0	<1.00e-01	<2.25e+03	<2.37e3	N/A	N/A	100.5	2.25e+03	N/A
S961002449	F	Strontium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	99.00	2.25e+03	N/A
S961002449	F	Titanium - ICP-Fusion	ug/g	96.80	<1.00e-02	<2.25e+03	<2.37e3	N/A	N/A	95.40	2.25e+03	N/A
S961002449	F	Thallium - ICP-Fusion	ug/g	97.80	<2.00e-01	<4.50e+03	<4.7e3	N/A	N/A	95.40	2.25e+03	N/A
S961002449	F	Uranium - ICP-Fusion	ug/g	96.80	<1.00e-01	<1.12e+04	<1.18e4	N/A	N/A	95.40	4.50e+03	N/A
S961002449	F	Vanadium - ICP-Fusion	ug/g	100.2	<1.00e-02	8.87e+03	1.59e+04	1.24e+04	56.8	94.60	1.12e+03	N/A
S961002449	F	Zinc - ICP-Fusion	ug/g	98.80	<2.00e-01	<2.25e+03	<2.37e3	N/A	N/A	97.30	2.25e+03	N/A
S961002449	F	Zirconium - ICP-Fusion	ug/g	104.8	<2.00e-02	<1.12e+03	<1.18e3	N/A	N/A	96.80	2.25e+03	N/A
S961002449	F	Cobalt-60 by GEA	uCi/g	104.8	<2.44e-02	<1.25e+01	<1.31e1	N/A	N/A	N/A	1.25e+01	N/A
S961002449	F	Cesium-137 by GEA	uCi/g	100.6	<2.93e-02	2.14e+02	2.14e+02	2.13e+02	0.00	N/A	N/A	0.730

WHC-SD-WM-OP-189, REV. I

Sample#	R A#	Analyte	Unit	Standard %	Blank	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002429	F	Europium-154 by GEA	uCi/g	< 2.5e-01	< 3.7e-01	< 4.15e-01	17/8	17/8	17/8	4.37e-01	17/8
S961002429	F	Europium-155 by GEA	uCi/g	< 1.7e-01	< 5.8e-01	< 6.30e-01	17/8	17/8	17/8	5.84e-01	17/8
S961002429	F	Americium-241 by GEA	uCi/g	< 1.25e-01	< 3.2e-01	< 3.50e-01	17/8	17/8	17/8	3.24e-01	17/8
S961002429	F	Alpha of Dissolved Solid	uCi/g	109.4	< 2.13e-01	2.33e-01	2.24e-01	10.2	17/8	7.00e-03	1.20e+01
S961002425	A	Silver - ICP-Acid Digest	ug/g	84.60	< 5.0e-02	13.70	14.00	4.25	17/8	5.330	17/8
S961002425	A	Aluminum - ICP-Acid Digest	ug/g	84.80	< 5.0e-02	1.58e-04	1.76e-04	1.68e-04	12.5	26.60	17/8
S961002425	A	Arscopic - ICP-Acid Digest	ug/g	89.80	< 5.0e-02	< 5.5e-01	75.25	76.4	17/8	26.60	17/8
S961002425	A	Boron - ICP-Acid Digest	ug/g	85.60	< 5.0e-02	< 1.84e-02	< 2.56e-02	17/8	17/8	26.60	17/8
S961002425	A	Barium - ICP-Acid Digest	ug/g	85.40	< 5.0e-02	< 1.79e-01	< 5.19e-01	17/8	17/8	26.60	17/8
S961002425	A	Beryllium - ICP-Acid Digest	ug/g	87.00	< 5.0e-02	< 5.70e-02	35.25	17.3	17/8	53.10	17/8
S961002425	A	Calcium - ICP-Acid Digest	ug/g	56.20	< 4.0e-01	3.22e-02	8.83e-02	8.165	11.1	2.440	17/8
S961002425	A	Calcium - ICP-Acid Digest	ug/g	56.20	< 4.0e-01	7.79e-02	8.165	11.1	17/8	5.460	17/8
S961002425	A	Cerium - ICP-Acid Digest	ug/g	50.20	< 5.0e-02	< 5.37e-02	17/8	17/8	17/8	10.40	17/8
S961002425	A	Cobalt - ICP-Acid Digest	ug/g	84.40	< 5.0e-02	2.57e-03	2.61e-03	3.09	17/8	5.160	17/8
S961002425	A	Copper - ICP-Acid Digest	ug/g	84.40	< 5.0e-02	3.47e-02	3.22e-02	3.21	17/8	5.310	17/8
S961002425	A	Iron - ICP-Acid Digest	ug/g	79.80	< 5.0e-01	1.57e+03	177.5	5.62	17/8	26.60	17/8
S961002425	A	Potassium - ICP-Acid Digest	ug/g	87.80	< 5.0e-01	2.05e+03	1.86e+03	20.4	17/8	26.60	17/8
S961002425	A	Lanthanum - ICP-Acid Digest	ug/g	87.20	< 5.0e-02	< 2.64e-02	< 2.79e-02	17/8	17/8	26.60	17/8
S961002425	A	Lithium - ICP-Acid Digest	ug/g	85.00	< 5.0e-02	< 5.31e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Magnesium - ICP-Acid Digest	ug/g	84.00	< 5.0e-02	1.16e+02	122.0	9.84	17/8	5.310	17/8
S961002425	A	Manganese - ICP-Acid Digest	ug/g	84.00	< 5.0e-02	< 4.85e-02	52.55	15.4	17/8	26.60	17/8
S961002425	A	Molybdenum - ICP-Acid Digest	ug/g	88.80	< 5.0e-01	1.91e+05	1.83e+05	8.74	17/8	53.10	17/8
S961002425	A	Sodium - ICP-Acid Digest	ug/g	88.80	< 5.0e-01	< 5.37e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Niodymium - ICP-Acid Digest	ug/g	87.20	< 5.0e-02	< 9.75e-02	103.8	12.0	17/8	10.40	17/8
S961002425	A	Nickel - ICP-Acid Digest	ug/g	92.00	< 5.0e-01	1.27e+03	1.39e+03	16.6	17/8	106.0	17/8
S961002425	A	Phosphorus - ICP-Acid Digest	ug/g	83.20	< 5.0e-01	7.74e-02	7.74e-02	0.39	17/8	53.10	17/8
S961002425	A	Lead - ICP-Acid Digest	ug/g	87.80	< 5.0e-01	7.74e-02	7.74e-02	0.39	17/8	53.10	17/8
S961002425	A	Sulfur - ICP-Acid Digest	ug/g	89.20	< 5.0e-02	< 3.19e-02	< 3.35e-02	17/8	17/8	31.90	17/8
S961002425	A	Antimony - ICP-Acid Digest	ug/g	84.00	< 5.0e-01	< 5.31e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Selenium - ICP-Acid Digest	ug/g	89.00	< 5.0e-01	< 5.31e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Silicon - ICP-Acid Digest	ug/g	89.00	< 5.0e-01	< 5.31e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Samarium - ICP-Acid Digest	ug/g	85.60	< 5.0e-02	< 5.31e-02	< 5.58e-02	17/8	17/8	53.10	17/8
S961002425	A	Strontium - ICP-Acid Digest	ug/g	86.00	< 5.0e-02	< 5.31e-02	< 5.58e-02	17/8	17/8	5.310	17/8
S961002425	A	Titanium - ICP-Acid Digest	ug/g	81.20	< 5.0e-01	< 1.04e+02	< 1.12e+02	17/8	17/8	5.310	17/8
S961002425	A	Thallium - ICP-Acid Digest	ug/g	84.20	< 5.0e-01	< 2.66e+02	< 2.79e+02	17/8	17/8	106.0	17/8
S961002425	A	Uranium - ICP-Acid Digest	ug/g	84.20	< 5.0e-01	< 2.66e+02	< 2.79e+02	17/8	17/8	266.0	17/8
S961002425	A	Vanadium - ICP-Acid Digest	ug/g	85.60	< 5.0e-01	< 2.66e+02	< 2.79e+02	17/8	17/8	266.0	17/8
S961002425	A	Zinc - ICP-Acid Digest	ug/g	84.20	< 5.0e-02	< 2.66e+02	< 2.79e+02	17/8	17/8	5.310	17/8
S961002425	A	Zirconium - ICP-Acid Digest	ug/g	92.20	< 5.0e-02	< 2.66e+02	< 2.79e+02	17/8	17/8	5.310	17/8
S961002425	A	Fluoride-IC-Dioxex 40001/4500	ug/g	99.83	< 3.0e-02	< 1.25e+02	< 1.45e+02	17/8	17/8	163.7	17/8
S961002429	F	Chloride-IC-Dioxex 40001/4500	ug/g	99.83	< 3.0e-02	< 1.25e+02	< 1.45e+02	17/8	17/8	163.7	17/8
S961002429	F	Nitrite-IC - Dioxex 40001/4500	ug/g	94.47	< 0.7e-01	6.32e+04	6.31e+04	0.16	17/8	1.03e+03	17/8
S961002429	F	Bromide by Ion Chromatograph	ug/g	95.48	< 1.2e-01	< 1.21e+03	< 1.41e+03	17/8	17/8	2.1e+03	17/8
S961002429	F	Nitrate by Ion Chromatograph	ug/g	95.77	< 1.9e-01	1.99e+05	2.00e+05	0.50	17/8	1.35e+03	17/8
S961002429	F	Phosphate-IC-Dioxex 40001/4500	ug/g	97.80	< 1.0e-01	3.74e+03	5.00e+03	28.8	17/8	1.14e+03	17/8
S961002429	F	Sulfate by IC - Dioxex 40001/4500	ug/g	99.05	< 3.6e-01	2.30e+04	2.26e+04	3.54	17/8	1.31e+03	17/8
S961002429	F	Oxalate by IC - Dioxex 40001	ug/g	102.4	< 1.05e-01	8.76e+03	8.45e+03	7.21	17/8	1.01e+03	17/8

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CORE NUMBER: 143
SEGMENT #: 5

Table 1. Data Summary Report
U-102

SEGMENT POSITION: W Whole Segment

Sample#	RM#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5961002518		Bulk Density of Sample	g/ml	N/A	N/A	1.880	N/A	N/A	N/A	N/A	5.00e-01	N/A
5961002518		DSC Exotherm using Mettler	Joules/g	101.9	N/A	16.60	15.50	16.05	6.83	N/A	N/A	N/A
5961002518		DSC Exotherm Dry Calculated	Joules/g Dry	N/A	N/A	19.79	18.47	19.13	6.90	N/A	N/A	N/A
5961002518		Water by TGA using Mettler	%	98.89	N/A	15.72	16.48	16.10	4.72	98.50	5.000	N/A
5961002518		TIC by Acid/Coulometry	uV/g	100.2	1.000	3.42e+03	3.29e+03	3.35e+03	3.97	97.70	21.00	N/A
5961002518		TOC by Persulfate/Coulometry	uV/g	93.67	0.00e+00	4.35e+03	4.42e+03	4.39e+03	1.37	99.50	21.00	N/A
5961002518		F Silver - ICP-Fusion	uV/g	101.4	<1.00e-02	<1.96e3	<1.96e3	<1.96e3	N/A	99.50	1.08e+03	N/A
5961002518		F Aluminum - ICP-Fusion	uV/g	99.20	<5.00e-02	9.41e+03	1.28e+04	1.11e+04	30.5	103.4	2.17e+03	N/A
5961002518		F Arsenic - ICP-Fusion	uV/g	104.0	<1.00e-01	<1.96e3	<1.96e3	<1.96e3	N/A	99.50	1.08e+03	N/A
5961002518		F Boron - ICP-Fusion	uV/g	101.4	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	103.4	2.17e+03	N/A
5961002518		F Barium - ICP-Fusion	uV/g	101.0	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	103.4	2.17e+03	N/A
5961002518		F Beryllium - ICP-Fusion	uV/g	105.8	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	103.4	2.17e+03	N/A
5961002518		F Bismuth - ICP-Fusion	uV/g	101.6	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	99.50	2.17e+03	N/A
5961002518		F Calcium - ICP-Fusion	uV/g	100.4	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	103.2	2.17e+03	N/A
5961002518		F Cadmium - ICP-Fusion	uV/g	103.6	<5.00e-03	<1.08e+03	<1.72e2	<1.72e2	N/A	103.2	2.17e+03	N/A
5961002518		F Cerium - ICP-Fusion	uV/g	102.6	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	103.2	2.17e+03	N/A
5961002518		F Cobalt - ICP-Fusion	uV/g	102.2	<1.00e-02	4.33e+02	4.39e2	4.36e2	N/A	103.2	2.17e+03	N/A
5961002518		F Chromium - ICP-Fusion	uV/g	104.4	<1.00e-02	1.32e+03	1.43e+03	1.38e+03	8.00	104.5	2.17e+03	N/A
5961002518		F Copper - ICP-Fusion	uV/g	100.4	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	101.9	2.17e+03	N/A
5961002518		F Iron - ICP-Fusion	uV/g	104.0	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	105.9	1.08e+03	N/A
5961002518		F Potassium - ICP-Fusion	uV/g	102.0	<5.00e-01	7.10e+06	N/A	N/A	N/A	103.2	1.08e+04	N/A
5961002518		F Lanthanum - ICP-Fusion	uV/g	102.0	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	96.80	2.17e+03	N/A
5961002518		F Lithium - ICP-Fusion	uV/g	101.0	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	102.0	2.17e+03	N/A
5961002518		F Magnesium - ICP-Fusion	uV/g	102.2	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	104.6	2.17e+03	N/A
5961002518		F Manganese - ICP-Fusion	uV/g	103.6	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	107.6	2.17e+03	N/A
5961002518		F Molybdenum - ICP-Fusion	uV/g	102.2	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	104.5	2.17e+03	N/A
5961002518		F Sodium - ICP-Fusion	uV/g	99.80	2.070	2.69e+05	2.72e+05	2.72e+05	1.84	104.9	2.17e+03	N/A
5961002518		F Neodymium - ICP-Fusion	uV/g	103.6	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	104.9	4.33e+03	N/A
5961002518		F Nickel - ICP-Fusion	uV/g	103.2	<2.00e-02	3.62e+03	7.21e+03	6.44e+03	25.6	103.4	2.17e+03	N/A
5961002518		F Phosphorus - ICP-Fusion	uV/g	103.0	<2.00e-01	4.33e+03	<1.96e3	<1.96e3	N/A	103.4	2.17e+03	N/A
5961002518		F Lead - ICP-Fusion	uV/g	103.6	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	103.4	2.17e+03	N/A
5961002518		F Sulfur - ICP-Fusion	uV/g	94.40	<6.00e-02	<1.30e+03	<1.17e3	<1.17e3	N/A	98.50	2.17e+03	N/A
5961002518		F Antimony - ICP-Fusion	uV/g	94.40	<6.00e-02	<1.30e+03	<1.17e3	<1.17e3	N/A	98.50	2.17e+03	N/A
5961002518		F Selenium - ICP-Fusion	uV/g	101.0	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	106.6	2.17e+03	N/A
5961002518		F Silicon - ICP-Fusion	uV/g	96.40	<5.00e-02	<1.08e+03	4.38e+03	<1.96e3	N/A	103.4	2.17e+03	N/A
5961002518		F Samarium - ICP-Fusion	uV/g	101.8	<1.00e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	99.50	2.17e+03	N/A
5961002518		F Strontium - ICP-Fusion	uV/g	101.0	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	99.50	2.17e+03	N/A
5961002518		F Thallium - ICP-Fusion	uV/g	98.60	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	90.95	1.08e+04	N/A
5961002518		F Thorium - ICP-Fusion	uV/g	94.70	<2.00e-01	<4.33e+03	<3.89e3	<3.89e3	N/A	102.9	1.08e+03	N/A
5961002518		F Uranium - ICP-Fusion	uV/g	103.0	<5.00e-02	<1.08e+03	<1.72e2	<1.72e2	N/A	102.7	2.17e+03	N/A
5961002518		F Vanadium - ICP-Fusion	uV/g	102.2	<1.00e-02	<2.17e+03	<1.96e3	<1.96e3	N/A	102.7	2.17e+03	N/A
5961002518		F Zinc - ICP-Fusion	uV/g	99.00	1.91e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	100.2	2.17e+03	N/A
5961002518		F Zirconium - ICP-Fusion	uV/g	99.00	1.91e-01	<2.17e+03	<1.96e3	<1.96e3	N/A	100.2	2.17e+03	N/A

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicates	Average	Rep. % Spk Rec. %	Det Limit	Count Error
S961002518	F	Cobalt-60 by GEA	uCi/g	104.8	< 9.26e-02	< 5.07e-03	< 4.84e-03	104.8	N/A	5.10e-02	N/A
S961002518	F	Cesium-137 by GEA	uCi/g	100.5	< 7.93e-02	1.04e-02	106.0	104.8	1.90	N/A	0.750
S961002518	F	Europium-154 by GEA	uCi/g	N/A	< 2.15e-01	< 1.80e-01	< 1.80e-01	N/A	N/A	2.10e-01	N/A
S961002518	F	Europium-155 by GEA	uCi/g	N/A	< 2.15e-01	< 2.81e-01	< 2.81e-01	N/A	N/A	2.81e-01	N/A
S961002518	F	Americium-241 by GEA	uCi/g	N/A	< 2.76e-01	< 1.52e-01	< 1.44e-01	N/A	N/A	1.52e-01	N/A
S961002518	F	Alpha of Digested Solid	uCi/g	109.4	< 5.25e-03	8.31e-03	6.54e-02	7.42e-02	23.8	7.00e-03	1.90e-03
S961002518	F	Silver - ICP-Acid Digest	uCi/g	84.60	< 1.00e-02	15.40	15.70	15.15	5.26	84.60	4.560
S961002519	A	Aluminum - ICP-Acid Digest	uCi/g	84.60	< 1.00e-02	7.89e-03	8.69e-03	8.29e-03	9.25	84.60	22.70
S961002519	A	Arsenic - ICP-Acid Digest	uCi/g	89.80	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	91.86	45.30	N/A
S961002519	A	Boron - ICP-Acid Digest	uCi/g	85.60	< 5.00e-02	< 2.27e-02	< 2.48e-02	31.03	81.8	45.30	N/A
S961002519	A	Barium - ICP-Acid Digest	uCi/g	85.60	< 5.00e-02	< 2.27e-02	< 2.55e-02	N/A	88.40	25.70	N/A
S961002519	A	Beryllium - ICP-Acid Digest	uCi/g	96.40	< 1.00e-01	< 2.70e-01	< 3.12e-01	N/A	97.00	2.270	N/A
S961002519	A	Bismuth - ICP-Acid Digest	uCi/g	87.00	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	90.20	45.30	N/A
S961002519	A	Calcium - ICP-Acid Digest	uCi/g	86.20	< 4.00e-01	2.37e+02	2.61e+02	2.69e+02	6.33	87.50	45.30
S961002519	A	Calcium - ICP-Acid Digest	uCi/g	85.20	< 5.00e-03	3.59e-03	3.59e-03	3.59e-03	0.00	87.40	2.270
S961002519	A	Cerium - ICP-Acid Digest	uCi/g	90.20	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	91.00	45.30	N/A
S961002519	A	Cobalt - ICP-Acid Digest	uCi/g	84.60	< 1.00e-02	< 9.07e-02	< 1.02e-01	N/A	89.40	9.070	N/A
S961002519	A	Chromium - ICP-Acid Digest	uCi/g	86.40	< 1.00e-02	9.06e-02	1.03e+03	948.0	12.8	71.62	4.540
S961002519	A	Copper - ICP-Acid Digest	uCi/g	86.40	< 1.00e-02	< 4.53e-01	< 5.12e-01	N/A	88.60	4.540	N/A
S961002519	A	Iron - ICP-Acid Digest	uCi/g	87.00	< 5.00e-02	< 1.81e-02	208.0	194.5	13.9	86.10	22.70
S961002519	A	Potassium - ICP-Acid Digest	uCi/g	79.80	< 5.00e-01	1.02e+03	500.0	985.0	7.11	59.06	22.70
S961002519	A	Lanthanum - ICP-Acid Digest	uCi/g	87.20	< 1.00e-02	< 2.27e-02	< 2.56e-02	N/A	N/A	91.80	4.540
S961002519	A	Lithium - ICP-Acid Digest	uCi/g	87.20	< 1.00e-02	< 4.53e-01	< 5.12e-01	N/A	N/A	91.80	4.540
S961002519	A	Magnesium - ICP-Acid Digest	uCi/g	85.00	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	N/A	86.40	45.30
S961002519	A	Manganese - ICP-Acid Digest	uCi/g	84.00	< 1.00e-02	58.10	61.90	60.00	6.33	83.78	4.540
S961002519	A	Molybdenum - ICP-Acid Digest	uCi/g	86.00	< 5.00e-02	24.10	26.10	25.10	7.97	88.54	22.70
S961002519	A	Sodium - ICP-Acid Digest	uCi/g	88.80	< 1.00e-01	2.05e+03	2.03e+03	2.04e+03	0.98	N/A	45.30
S961002519	A	Neodymium - ICP-Acid Digest	uCi/g	86.60	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	N/A	90.20	45.30
S961002519	A	Nickel - ICP-Acid Digest	uCi/g	87.20	< 2.00e-02	47.20	48.20	47.70	2.10	88.00	9.070
S961002519	A	Phosphorus - ICP-Acid Digest	uCi/g	92.00	< 2.00e-01	5.45e+02	582.0	563.5	6.37	84.76	90.70
S961002519	A	Lead - ICP-Acid Digest	uCi/g	83.20	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	N/A	88.40	45.30
S961002519	A	Antimony - ICP-Acid Digest	uCi/g	87.60	< 1.00e-01	1.46e+03	1.53e+03	1.50e+03	4.68	62.94	45.30
S961002519	A	Selenium - ICP-Acid Digest	uCi/g	89.20	< 5.00e-02	< 2.27e-02	< 3.07e-02	N/A	N/A	92.80	27.20
S961002519	A	Silicon - ICP-Acid Digest	uCi/g	84.00	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	N/A	90.40	45.30
S961002519	A	Samarium - ICP-Acid Digest	uCi/g	89.00	< 9.30e-02	1.04e+02	123.0	113.5	16.7	83.70	22.70
S961002519	A	Strontium - ICP-Acid Digest	uCi/g	85.60	< 1.00e-01	< 4.53e-01	< 5.12e-01	N/A	N/A	88.40	45.30
S961002519	A	Titanium - ICP-Acid Digest	uCi/g	86.00	< 1.00e-02	< 4.53e-01	< 5.12e-02	N/A	N/A	88.80	4.540
S961002519	A	Thallium - ICP-Acid Digest	uCi/g	81.00	< 2.00e-01	< 4.53e-01	< 5.12e-02	N/A	N/A	83.60	4.540
S961002519	A	Uranium - ICP-Acid Digest	uCi/g	82.20	< 5.00e-01	< 90.70	< 1.02e-02	N/A	N/A	83.40	90.70
S961002519	A	Vanadium - ICP-Acid Digest	uCi/g	84.20	< 5.00e-02	< 2.27e+02	< 2.56e+02	N/A	N/A	87.30	22.70
S961002519	A	Zinc - ICP-Acid Digest	uCi/g	85.60	< 5.00e-02	< 2.27e-02	< 2.56e-02	N/A	N/A	88.20	22.70
S961002519	A	Zinc - ICP-Acid Digest	uCi/g	92.20	< 1.30e-02	18.00	20.10	19.05	11.0	86.62	4.540
S961002519	A	Zirconium - ICP-Acid Digest	uCi/g	92.20	< 1.00e-02	< 4.53e-01	< 5.12e-02	N/A	N/A	95.40	4.540
S961002520	V	Fluoride-IC-Dioxex 40001/4500	uCi/g	105.1	< 1.30e-02	< 1.34e+02	< 1.34e+02	N/A	N/A	103.5	148.5
S961002520	V	Chloride-IC-Dioxex 40001/4500	uCi/g	107.1	< 1.70e-02	3.61e+03	2.46e+03	3.04e+03	37.9	90.76	194.2
S961002520	V	Nitrite-IC - Dioxex 40001/4500	uCi/g	99.45	< 1.0e-01	3.15e+04	2.91e+04	3.03e+04	7.92	101.8	1.22e+03
S961002520	V	Bromide by Ion Chromatograph	uCi/g	100.5	< 2.6e-01	< 1.44e+03	< 1.30e+03	N/A	N/A	91.30	1.44e+03
S961002520	V	Nitrate by IC-Dioxex40001/4500	uCi/g	102.1	< 1.40e-01	5.01e+05	4.95e+05	4.98e+05	1.20	86.83	1.60e+03
S961002520	V	Phosphate-IC-Dioxex 40001/4500	uCi/g	104.4	< 1.9e-01	< 1.36e+03	< 1.23e+03	N/A	N/A	99.08	1.36e+03
S961002520	V	Sulfate by IC-Dioxex40001/4500	uCi/g	104.3	< 1.36e-01	4.13e+03	3.53e+03	3.83e+03	15.7	97.94	1.58e+03

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002520	14	Dvalate by IC - Dionex 4000	ug/g	108.1	<1.05e-01	1.54e+03	2.00e+03	1.77e+03	26.0	100.2	1.20e+03	N/A

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002501		Bulk Density of Sample	g/mL	n/a	n/a	1.710	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T002501		OSC Enthalpy using Mettler	Joules/g	101.9	n/a	19.00	15.50	17.25	20.3	n/a	n/a	n/a
S96T002501		OSC Enthalpy using Mettler	Joules/g	101.9	n/a	22.00	18.71	20.82	20.3	n/a	n/a	n/a
S96T002501		% Water by TGA using Mettler	%	98.89	n/a	17.19	17.11	17.15	0.41	n/a	n/a	n/a
S96T002501		TIC by Acid Coulometry	ug/g	98.01	1.400	3.30e+03	3.05e+03	3.18e+03	7.87	98.30	5.000	n/a
S96T002501		TOC by Persulfate Coulometry	ug/g	98.67	2.600	4.09e+03	4.20e+03	4.14e+03	2.65	98.60	40.00	n/a
S96T002521		F Aluminum - ICP-Fusion	ug/g	96.40	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	65.10	218.0	n/a
S96T002521		F Silicon - ICP-Fusion	ug/g	102.2	6.40e-01	1.06e+04	1.06e+04	1.07e+04	1.87	98.90	1.09e+03	n/a
S96T002521		F Arsenic - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.18e+03	<1.16e3	n/a	n/a	99.80	2.18e+03	n/a
S96T002521		F Barium - ICP-Fusion	ug/g	101.2	<5.00e-02	<1.09e+03	<1.16e3	n/a	n/a	99.80	1.09e+03	n/a
S96T002521		F Beryllium - ICP-Fusion	ug/g	101.2	<5.00e-02	<1.09e+03	<1.16e3	n/a	n/a	99.80	1.09e+03	n/a
S96T002521		F Bismuth - ICP-Fusion	ug/g	101.2	<5.00e-02	<1.09e+03	<1.16e3	n/a	n/a	99.80	1.09e+03	n/a
S96T002521		F Calcium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.18e+02	<1.16e3	n/a	n/a	99.80	2.18e+03	n/a
S96T002521		F Cadmium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.18e+02	<1.16e3	n/a	n/a	99.80	2.18e+03	n/a
S96T002521		F Cerium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.18e+02	<1.16e3	n/a	n/a	99.80	2.18e+03	n/a
S96T002521		F Cobalt - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.18e+02	<1.16e3	n/a	n/a	99.80	2.18e+03	n/a
S96T002521		F Chromium - ICP-Fusion	ug/g	99.00	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	100.5	2.18e+03	n/a
S96T002521		F Copper - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.18e+02	<2.33e2	1.20e+03	1.87	98.70	436.0	n/a
S96T002521		F Iron - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	100.2	218.0	n/a
S96T002521		F Potassium - ICP-Fusion	ug/g	103.4	<5.00e-01	<1.09e+03	<1.16e3	n/a	n/a	101.0	1.09e+03	n/a
S96T002521		F Lithium - ICP-Fusion	ug/g	102.8	<5.00e-02	<1.09e+03	<1.16e3	n/a	n/a	101.9	1.09e+03	n/a
S96T002521		F Magnesium - ICP-Fusion	ug/g	98.20	<1.00e-01	<2.18e+02	<2.33e2	n/a	n/a	97.90	2.18e+03	n/a
S96T002521		F Manganese - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	98.40	2.18e+03	n/a
S96T002521		F Molybdenum - ICP-Fusion	ug/g	99.00	<5.00e-02	<1.09e+03	<1.16e3	n/a	n/a	98.80	1.09e+03	n/a
S96T002521		F Neodymium - ICP-Fusion	ug/g	99.80	1.870	2.75e+05	2.81e+05	2.78e+05	2.16	89.00	2.18e+03	n/a
S96T002521		F Nickel - ICP-Fusion	ug/g	109.4	<1.00e-01	<2.18e+03	<2.33e3	n/a	n/a	109.3	2.18e+03	n/a
S96T002521		F Phosphorus - ICP-Fusion	ug/g	101.2	<2.00e-01	<4.36e+03	<4.65e3	7.04e+03	8.09	97.60	436.0	n/a
S96T002521		F Sulfur - ICP-Fusion	ug/g	100.8	<1.00e-01	<2.18e+03	<2.33e3	n/a	n/a	102.0	2.18e+03	n/a
S96T002521		F Tellurium - ICP-Fusion	ug/g	98.20	<1.00e-01	<2.18e+03	<2.33e3	n/a	n/a	98.80	2.18e+03	n/a
S96T002521		F Antimony - ICP-Fusion	ug/g	94.60	<5.00e-02	<1.31e+03	<1.40e3	n/a	n/a	95.90	1.31e+03	n/a
S96T002521		F Selenium - ICP-Fusion	ug/g	97.80	<1.00e-01	<2.18e+03	<2.33e3	n/a	n/a	99.30	1.09e+03	n/a
S96T002521		F Strontium - ICP-Fusion	ug/g	102.0	<1.00e-01	<2.18e+03	<2.33e3	n/a	n/a	99.30	2.18e+03	n/a
S96T002521		F Tantalum - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	100.2	218.0	n/a
S96T002521		F Thallium - ICP-Fusion	ug/g	96.80	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	95.10	218.0	n/a
S96T002521		F Vanadium - ICP-Fusion	ug/g	97.80	<2.00e-01	<4.36e+03	<4.65e3	n/a	n/a	90.35	4.36e+03	n/a
S96T002521		F Zinc - ICP-Fusion	ug/g	96.80	<5.00e-01	<1.09e+04	<1.16e4	n/a	n/a	90.35	1.09e+04	n/a
S96T002521		F Zirconium - ICP-Fusion	ug/g	100.2	<2.40e-02	<8.61e+02	<1.16e3	95.5	19.8	96.80	218.0	n/a
S96T002521		F Zirconium - ICP-Fusion	ug/g	98.80	<1.00e-02	<2.18e+02	<2.33e2	n/a	n/a	97.60	218.0	n/a

WHC-SD-WM-DP-189, REV. 1

Sample#	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961002521	F Cobalt-60 by DEA	uCi/g	103.9	< 3.2e-02	< 4.7e-02	< 4.0e-2	n/a	n/a	4.50e-02	n/a
S961002521	F Cesium-137 by DEA	uCi/g	103.9	5.28e-01	1.12e-02	0.19	110.3	2.71	n/a	0.670
S961002521	F Europium-154 by DEA	uCi/g	n/a	< 1.61e-01	< 1.09e-01	< 1.27e-1	n/a	n/a	1.09e-01	n/a
S961002521	F Americium-241 by DEA	uCi/g	n/a	< 1.22e-01	< 7.75e-01	< 7.75e-1	n/a	n/a	3.79e-01	n/a
S961002522	A Silver - ICP-Acid Digest	ug/g	84.80	< 1.00e-02	< 1.40e-01	< 1.00e0	14.25	2.11	4.840	n/a
S961002522	A Aluminum - ICP-Acid Digest	ug/g	84.80	< 1.00e-02	8.53e+03	8.04e+03	8.28e+03	5.91	48.40	n/a
S961002522	A Arsenic - ICP-Acid Digest	ug/g	89.80	< 1.00e-01	< 4.80	< 4.35e1	n/a	n/a	24.20	n/a
S961002522	A Boron - ICP-Acid Digest	ug/g	85.60	< 1.00e-02	< 24.20	< 2.70	n/a	n/a	24.20	n/a
S961002522	A Beryllium - ICP-Acid Digest	ug/g	85.60	< 1.00e-02	< 24.20	< 2.18e1	n/a	n/a	24.20	n/a
S961002522	A Barium - ICP-Acid Digest	ug/g	96.40	< 1.00e-01	< 2.420	< 4.35e1	n/a	n/a	2.420	n/a
S961002522	A Cadmium - ICP-Acid Digest	ug/g	96.20	< 1.00e-01	< 4.80	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Calcium - ICP-Acid Digest	ug/g	85.40	< 1.00e-03	2.30e+02	2.13.0	221.5	7.67	48.40	n/a
S961002522	A Cerium - ICP-Acid Digest	ug/g	85.40	< 1.00e-02	< 2.420	2.850	n/a	n/a	2.420	n/a
S961002522	A Chromium - ICP-Acid Digest	ug/g	90.20	< 1.00e-01	< 4.80	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Cobalt - ICP-Acid Digest	ug/g	87.60	< 1.00e-02	< 9.680	< 8.70e0	n/a	n/a	9.680	n/a
S961002522	A Copper - ICP-Acid Digest	ug/g	86.40	< 1.00e-02	8.12e+02	805.0	808.5	0.87	4.840	n/a
S961002522	A Lead - ICP-Acid Digest	ug/g	87.80	< 1.00e-02	< 4.840	< 4.35e0	n/a	n/a	4.840	n/a
S961002522	A Lithium - ICP-Acid Digest	ug/g	87.80	< 1.00e-01	1.12e+03	959.0	148.0	6.78	24.20	n/a
S961002522	A Magnesium - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 24.20	< 2.18e1	1.04e+03	14.5	24.20	n/a
S961002522	A Manganese - ICP-Acid Digest	ug/g	87.20	< 1.00e-01	< 4.840	8.230	8.435	5.32	4.840	n/a
S961002522	A Molybdenum - ICP-Acid Digest	ug/g	86.00	< 1.00e-02	< 24.20	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Nickel - ICP-Acid Digest	ug/g	86.00	< 1.00e-02	26.40	26.40	25.60	0.73	24.20	n/a
S961002522	A Neodymium - ICP-Acid Digest	ug/g	88.80	< 1.00e-01	2.00e+02	1.96e0	1.98e+02	2.53	48.40	n/a
S961002522	A Phosphorus - ICP-Acid Digest	ug/g	86.40	< 1.00e-01	< 4.80	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Selenium - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	1.15e+03	1.07e+03	1.11e+03	7.21	9.680	n/a
S961002522	A Silver - ICP-Acid Digest	ug/g	83.20	< 1.00e-01	< 4.80	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Sulfur - ICP-Acid Digest	ug/g	87.80	< 1.00e-01	1.23e+03	1.16e+03	1.20e+03	5.86	48.40	n/a
S961002522	A Tellurium - ICP-Acid Digest	ug/g	89.20	< 1.00e-02	< 29.00	< 2.61e1	n/a	n/a	48.40	n/a
S961002522	A Silicon - ICP-Acid Digest	ug/g	89.00	< 1.00e-01	< 48.40	< 4.35e1	195.0	0.00	24.20	n/a
S961002522	A Strontium - ICP-Acid Digest	ug/g	85.60	< 1.00e-02	< 4.80	< 4.35e1	n/a	n/a	48.40	n/a
S961002522	A Titanium - ICP-Acid Digest	ug/g	86.00	< 1.00e-02	< 4.840	< 4.35e0	n/a	n/a	4.840	n/a
S961002522	A Thallium - ICP-Acid Digest	ug/g	81.00	< 1.00e-02	< 4.840	< 4.35e0	n/a	n/a	4.840	n/a
S961002522	A Uranium - ICP-Acid Digest	ug/g	82.20	< 1.00e-01	< 96.80	< 8.70e1	n/a	n/a	96.80	n/a
S961002522	A Vanadium - ICP-Acid Digest	ug/g	84.20	< 1.00e-01	< 2.42e+02	< 2.18e2	n/a	n/a	24.20	n/a
S961002522	A Zinc - ICP-Acid Digest	ug/g	85.60	< 1.00e-02	< 24.20	< 2.18e1	n/a	n/a	24.20	n/a
S961002522	A Zirconium - ICP-Acid Digest	ug/g	84.20	< 1.00e-02	15.50	34.30	24.90	75.5	4.840	n/a
S961002522	W Fluoride-IC-Dioxin 4000/4500	ug/g	92.20	< 1.00e-02	< 4.840	4.770	n/a	n/a	4.840	n/a
S961002523	W Chloride-IC-Dioxin 4000/4500	ug/g	105.1	< 1.00e-02	< 1.34e+02	< 1.39e2	n/a	n/a	134.3	n/a
S961002523	W Nitrite-IC - Dioxin 4000/4500	ug/g	99.45	< 1.00e-02	2.62e+03	3.03e+04	3.02e+04	1.00	175.7	n/a
S961002523	W Bromide by Ion Chromatograph	ug/g	100.5	< 1.20e-01	< 1.30e+03	< 1.35e3	n/a	n/a	1.1e+03	n/a
S961002523	W Nitrate by IC-Dioxin4000/4500	ug/g	101.1	< 1.00e-01	4.75e+05	4.75e+05	4.76e+05	0.21	4.5e+03	n/a
S961002523	W Phosphate by IC-Dioxin 4000/4500	ug/g	102.4	< 1.10e-01	2.34e+03	2.34e+03	2.33e+03	0.86	2.3e+03	n/a
S961002523	W Sulfate by IC-Dioxin4000/4500	ug/g	104.3	< 1.10e-01	2.88e+03	2.93e+03	2.90e+03	1.72	4.0e+03	n/a
S961002523	W Oxalate by IC - Dioxin 4000/	ug/g	108.1	< 1.05e-01	1.65e+03	1.43e+03	1.54e+03	14.3	1.08e+03	n/a

CORE NUMBER: 143
SEGMENT #: 56

SEGMENT PORTION: U Upper Half of Segment

Table 1. Data Summary Report
U-102

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S961002663		Bulk Density of Sample	g/mL	n/a	n/a	1.650	n/a	n/a	n/a	n/a	5.00e-01		n/a
S961002665		BSC Exotherm using Mettler	Joules/g	111.1	n/a	1.94e+02	98.10	145.9	65.6	n/a	n/a	n/a	n/a
S961002665		BSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	3.05e+02	154.4	229.7	65.6	n/a	n/a	n/a	n/a
S961002665	1	BSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	2.50e+02	222.7	240.6	14.9	n/a	n/a	n/a	n/a
S961002665	1	BSC Exotherm on Perkin Elmer	Joules/g	94.94	n/a	1.64e+02	141.5	152.9	14.9	n/a	n/a	n/a	n/a
S961002665		% Water by IGA using Mettler	wt/g	98.89	n/a	40.24	32.66	36.45	20.8	n/a	n/a	n/a	n/a
S961002665		TIC by Acid/Coulometry	wt/g	99.17	3.800	7.76e+03	8.20e+03	7.98e+03	5.51	n/a	5.000	n/a	n/a
S961002665		TOC by Persulfate/Coulometry	wt/g	92.00	<1.00e-02	9.18e+03	9.24e+03	9.21e+03	0.65	n/a	40.00	n/a	n/a
S961002671		F Silver - ICP-Fusion	wt/g	98.40	<1.00e-02	<2.1e+02	<2.11e2	n/a	n/a	5.000	421.0	n/a	n/a
S961002671		F Aluminum - ICP-Fusion	wt/g	100.0	6.60e-02	1.91e+04	1.94e+04	1.92e+04	1.56	n/a	98.60	1.10e+03	n/a
S961002671		F Arsenic - ICP-Fusion	wt/g	102.2	<3.00e-02	<2.1e+03	<2.11e3	n/a	n/a	99.30	2.21e+03	n/a	n/a
S961002671		F Boron - ICP-Fusion	wt/g	102.2	<3.00e-02	<1.10e+03	<1.06e3	n/a	n/a	99.30	1.10e+03	n/a	n/a
S961002671		F Barium - ICP-Fusion	wt/g	104.2	<3.00e-02	<1.10e+03	<1.06e3	n/a	n/a	100.2	1.10e+03	n/a	n/a
S961002671		F Beryllium - ICP-Fusion	wt/g	100.4	<3.00e-02	<1.10e+03	<1.06e3	n/a	n/a	100.2	1.10e+03	n/a	n/a
S961002671		F Bismuth - ICP-Fusion	wt/g	101.2	<1.00e-01	<2.21e+03	<2.11e3	n/a	n/a	99.50	2.21e+03	n/a	n/a
S961002671		F Calcium - ICP-Fusion	wt/g	101.2	<1.00e-01	<2.21e+03	<2.11e3	n/a	n/a	99.50	2.21e+03	n/a	n/a
S961002671		F Cadmium - ICP-Fusion	wt/g	100.8	<3.00e-03	<1.10e+02	<1.06e2	n/a	n/a	98.20	2.21e+03	n/a	n/a
S961002671		F Cerium - ICP-Fusion	wt/g	99.60	<3.00e-02	<2.21e+03	<2.11e3	n/a	n/a	101.2	2.21e+03	n/a	n/a
S961002671		F Cobalt - ICP-Fusion	wt/g	100.6	<3.00e-02	<2.21e+03	<2.11e3	n/a	n/a	98.60	2.21e+03	n/a	n/a
S961002671		F Chromium - ICP-Fusion	wt/g	101.0	<1.00e-05	<2.21e+02	<2.11e2	1.30e+03	1.34	101.00	221.0	n/a	n/a
S961002671		F Copper - ICP-Fusion	wt/g	101.0	<1.00e-05	<2.21e+02	<2.11e2	n/a	n/a	101.00	221.0	n/a	n/a
S961002671		F Potassium - ICP-Fusion	wt/g	102.2	<3.00e-02	<1.10e+03	<1.06e3	n/a	n/a	101.0	1.10e+03	n/a	n/a
S961002671		F Lithium - ICP-Fusion	wt/g	102.8	<3.00e-02	<1.10e+03	<1.06e3	n/a	n/a	102.7	1.10e+03	n/a	n/a
S961002671		F Magnesium - ICP-Fusion	wt/g	98.20	<1.00e-01	<2.21e+02	<2.11e2	n/a	n/a	94.90	2.21e+03	n/a	n/a
S961002671		F Manganese - ICP-Fusion	wt/g	101.0	<1.00e-02	<2.21e+02	<2.11e2	n/a	n/a	95.40	2.21e+03	n/a	n/a
S961002671		F Molybdenum - ICP-Fusion	wt/g	99.00	<5.00e-02	<2.21e+02	<2.11e2	n/a	n/a	100.0	2.21e+03	n/a	n/a
S961002671		F Nickel - ICP-Fusion	wt/g	99.80	<1.870	<2.54e+03	<2.70e+03	2.62e+03	6.11	97.10	1.10e+03	n/a	n/a
S961002671		F Neodymium - ICP-Fusion	wt/g	109.4	<1.00e-01	<2.51e+03	<2.71e3	n/a	n/a	86.40	2.21e+03	n/a	n/a
S961002671		F Phosphorus - ICP-Fusion	wt/g	101.2	<2.00e-01	<2.51e+03	<2.71e3	2.78e+03	19.1	110.7	2.21e+03	n/a	n/a
S961002671		F Lead - ICP-Fusion	wt/g	100.6	<1.00e-01	<2.51e+03	<2.71e3	n/a	n/a	104.1	4.41e+03	n/a	n/a
S961002671		F Selenium - ICP-Fusion	wt/g	98.20	<1.00e-01	<3.98e+03	<3.98e+03	3.97e+03	0.50	96.60	2.21e+03	n/a	n/a
S961002671		F Antimony - ICP-Fusion	wt/g	94.60	<6.00e-02	<2.21e+03	<2.17e3	n/a	n/a	87.80	1.32e+03	n/a	n/a
S961002671		F Silicon - ICP-Fusion	wt/g	97.80	<1.00e-01	<2.21e+03	<2.11e3	n/a	n/a	97.60	2.21e+03	n/a	n/a
S961002671		F Strontium - ICP-Fusion	wt/g	94.40	<5.00e-02	<2.21e+03	<2.11e3	n/a	n/a	94.10	1.10e+03	n/a	n/a
S961002671		F Tantalum - ICP-Fusion	wt/g	102.0	<1.00e-01	<2.21e+02	<2.11e2	n/a	n/a	101.0	2.21e+03	n/a	n/a
S961002671		F Titanium - ICP-Fusion	wt/g	101.0	<1.00e-02	<2.21e+02	<2.11e2	n/a	n/a	100.7	221.0	n/a	n/a
S961002671		F Thallium - ICP-Fusion	wt/g	96.80	<2.00e-01	<4.41e+03	<4.23e3	n/a	n/a	95.60	4.41e+03	n/a	n/a
S961002671		F Uranium - ICP-Fusion	wt/g	96.80	<5.00e-01	<1.10e+04	<1.06e4	n/a	n/a	91.35	1.10e+04	n/a	n/a
S961002671		F Vanadium - ICP-Fusion	wt/g	100.6	<5.00e-02	<1.10e+03	<1.06e3	n/a	n/a	99.50	1.10e+03	n/a	n/a

Sample#	RAW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD, % Spk	Rec. %	Det. Limit	Count Error
SS9501002671	F	Zinc - ICP-Fusion	ug/g	100.2	2.40e-02	1.19e+03	< 90e-03	998.0	58.5	98.00	22.0	N/A
SS9501002671	F	Zinc - ICP-Fusion	ug/g	98.8	4.10e-02	< 2.21e+02	< 90e-03	98.8	N/A	98.50	22.0	N/A
SS9501002671	F	Cobalt-40 by DEA	ug/g	103.9	5.28e-02	< 5.75e+02	< 3.44e-02	N/A	N/A	N/A	N/A	N/A
SS9501002671	F	Cesium-137 by DEA	ug/g	101.2	3.22e-01	< 2.00e+02	< 20e-02	201.5	1.9	N/A	3.60e-02	0.500
SS9501002671	F	Europium-151 by DEA	ug/g	N/A	< 1.52e-01	< 1.00e+02	< 1.80e-01	N/A	N/A	N/A	1.00e-01	N/A
SS9501002671	F	Europium-151 by DEA	ug/g	N/A	< 1.42e-01	< 2.74e-01	< 4.80e-01	N/A	N/A	N/A	4.90e-01	N/A
SS9501002671	F	Silver-107 by DEA	ug/g	N/A	< 3.10e-01	< 1.30e	< 1.27e-01	N/A	N/A	N/A	1.30e	N/A
SS9501002673	A	Silver - ICP-Acid Digest	ug/g	84.0	< 1.00e-02	< 1.50e+02	< 1.50e+02	13.5	2.56	N/A	4.30e	N/A
SS9501002673	A	Aluminum - ICP-Acid Digest	ug/g	87.80	< 5.00e-02	< 1.65e+02	< 1.50e+02	11.5	2.56	N/A	22.0	N/A
SS9501002673	A	Aluminum - ICP-Acid Digest	ug/g	84.80	< 1.00e-02	< 1.40e+02	< 1.11e+02	1.58e+04	5.86	N/A	44.30	N/A
SS9501002673	A	Arsenic - ICP-Acid Digest	ug/g	87.80	< 5.00e-02	< 1.40e+02	< 1.11e+02	1.58e+04	5.86	N/A	44.30	N/A
SS9501002673	A	Boron - ICP-Acid Digest	ug/g	85.60	< 5.00e-02	< 2.21e+02	< 2.55e+02	41.52	19.1	N/A	22.0	N/A
SS9501002673	A	Beryllium - ICP-Acid Digest	ug/g	84.20	< 5.00e-02	< 3.21e+02	< 2.55e+02	N/A	N/A	N/A	2.21e	N/A
SS9501002673	A	Beryllium - ICP-Acid Digest	ug/g	87.00	< 1.00e-01	< 3.21e+02	< 3.21e+02	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Calcium - ICP-Acid Digest	ug/g	85.20	< 5.00e-01	< 2.68e+02	< 307.0	276.5	22.1	N/A	44.30	N/A
SS9501002673	A	Calcium - ICP-Acid Digest	ug/g	85.40	< 5.00e-03	< 6.29e+02	< 3.60e+02	5.945	17.5	N/A	2.21e	N/A
SS9501002673	A	Cadmium - ICP-Acid Digest	ug/g	90.20	< 1.00e-01	< 44.30	< 5.11e+01	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Cadmium - ICP-Acid Digest	ug/g	87.60	< 2.00e-02	< 8.86e+01	< 1.02e+01	N/A	N/A	N/A	8.86e	N/A
SS9501002673	A	Cobalt - ICP-Acid Digest	ug/g	86.40	< 1.00e-02	< 8.86e+01	< 1.02e+01	N/A	N/A	N/A	8.86e	N/A
SS9501002673	A	Copper - ICP-Acid Digest	ug/g	86.40	< 1.00e-02	< 8.86e+01	< 1.02e+01	919.5	4.89	N/A	4.30e	N/A
SS9501002673	A	Copper - ICP-Acid Digest	ug/g	86.40	< 1.00e-02	< 4.43e+01	< 5.11e+01	N/A	N/A	N/A	4.30e	N/A
SS9501002673	A	Iron - ICP-Acid Digest	ug/g	87.00	< 5.00e-02	< 8.86e+02	< 9.73e+02	185.0	9.73	N/A	22.0	N/A
SS9501002673	A	Potassium - ICP-Acid Digest	ug/g	79.80	< 5.00e-01	< 1.94e+02	< 1.71e+03	1.73e+03	2.31	N/A	22.0	N/A
SS9501002673	A	Lanthanum - ICP-Acid Digest	ug/g	87.80	< 5.00e-02	< 2.21e+02	< 2.55e+02	N/A	N/A	N/A	22.0	N/A
SS9501002673	A	Lithium - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 4.43e+01	< 5.11e+01	N/A	N/A	N/A	4.43e	N/A
SS9501002673	A	Magnesium - ICP-Acid Digest	ug/g	85.00	< 1.00e-01	< 44.30	< 5.11e+01	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Manganese - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	< 54.30	< 62.00	53.45	5.43	N/A	4.43e	N/A
SS9501002673	A	Molybdenum - ICP-Acid Digest	ug/g	86.00	< 5.00e-02	< 51.70	< 46.20	48.95	11.2	N/A	22.0	N/A
SS9501002673	A	Sodium - ICP-Acid Digest	ug/g	88.80	< 1.00e-01	< 1.86e+05	< 1.86e+05	1.85e+05	1.08	N/A	44.30	N/A
SS9501002673	A	Neodmium - ICP-Acid Digest	ug/g	86.60	< 1.00e-01	< 44.30	< 5.11e+01	69.60	11.2	N/A	44.30	N/A
SS9501002673	A	Nickel - ICP-Acid Digest	ug/g	87.20	< 2.00e-02	< 73.50	< 65.70	N/A	N/A	N/A	8.86e	N/A
SS9501002673	A	Phosphorus - ICP-Acid Digest	ug/g	93.00	< 2.00e-01	< 9.62e+02	< 1.27e+03	27.6	N/A	N/A	88.60	N/A
SS9501002673	A	Lead - ICP-Acid Digest	ug/g	82.20	< 1.00e-01	< 44.30	< 5.11e+01	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Sulfur - ICP-Acid Digest	ug/g	89.20	< 6.00e-02	< 3.93e+03	< 3.61e+03	3.77e+03	8.49	N/A	44.30	N/A
SS9501002673	A	Antimony - ICP-Acid Digest	ug/g	87.80	< 6.00e-02	< 26.60	< 3.06e+01	N/A	N/A	N/A	26.60	N/A
SS9501002673	A	Selenium - ICP-Acid Digest	ug/g	84.00	< 1.00e-01	< 44.30	< 5.11e+01	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Silicon - ICP-Acid Digest	ug/g	89.00	< 9.30e-02	< 1.11e+02	< 107.0	109.0	3.67	N/A	22.0	N/A
SS9501002673	A	Strontium - ICP-Acid Digest	ug/g	85.60	< 1.00e-01	< 44.30	< 5.11e+01	N/A	N/A	N/A	44.30	N/A
SS9501002673	A	Samarium - ICP-Acid Digest	ug/g	86.60	< 1.00e-02	< 4.43e+01	< 5.11e+01	N/A	N/A	N/A	4.43e	N/A
SS9501002673	A	Tantalum - ICP-Acid Digest	ug/g	81.00	< 2.00e-02	< 4.43e+01	< 5.11e+01	N/A	N/A	N/A	4.43e	N/A
SS9501002673	A	Thallium - ICP-Acid Digest	ug/g	82.20	< 2.00e-01	< 88.60	< 1.02e+02	N/A	N/A	N/A	88.60	N/A
SS9501002673	A	Uranium - ICP-Acid Digest	ug/g	85.60	< 5.00e-01	< 2.21e+02	< 2.55e+02	N/A	N/A	N/A	22.0	N/A
SS9501002673	A	Vanadium - ICP-Acid Digest	ug/g	84.20	< 1.30e-02	< 22.00	< 2.55e+01	N/A	N/A	N/A	22.0	N/A
SS9501002673	A	Zinc - ICP-Acid Digest	ug/g	84.20	< 1.30e-02	< 17.00	< 24.00	20.50	34.1	N/A	4.43e	N/A
SS9501002673	A	Zirconium - ICP-Acid Digest	ug/g	92.20	< 1.00e-02	< 4.43e+01	< 5.11e+01	N/A	N/A	N/A	4.43e	N/A
SS9501002673	A	Zirconium - ICP-Acid Digest	ug/g	104.7	< 1.30e-02	< 98.25	< 1.11e+02	N/A	N/A	131.4	98.24	N/A
SS9501002675	A	Fluoride-IC-Dioxex 40001/4500	ug/g	101.5	< 1.07e-01	< 5.57e+03	< 5.57e+03	0.00	100.6	128.5	N/A	N/A
SS9501002675	A	Chloride-IC-Dioxex 40001/4500	ug/g	95.48	< 1.26e-01	< 6.46e+04	< 6.17e+04	6.31e+04	4.59	109.2	808.5	N/A
SS9501002675	A	Nitrite-IC - Dioxex 40001/4500	ug/g	95.21	< 0.78e-01	< 9.52e+02	< 1.07e+03	N/A	N/A	96.70	952.4	N/A
SS9501002675	A	Bromide by Ion Chromatograph	ug/g	95.48	< 1.26e-01	< 9.52e+02	< 1.07e+03	N/A	N/A	96.70	952.4	N/A
SS9501002675	A	Nitrate by IC-Dioxex40001/4500	ug/g	97.37	< 1.40e-01	< 2.88e+05	< 3.10e+05	2.94e+05	4.41	106.2	1.04e+03	N/A
SS9501002675	A	Nitrate by IC-Dioxex40001/4500	ug/g	98.44	< 1.19e-01	< 2.70e+03	< 3.13e+03	2.92e+03	14.8	97.80	598.7	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002675	W	Sulfate by IC-Dionex4000/4500	ug/g	99.68	<1.36e-01	1.16e+04	1.16e+04	1.16e+04	0.00	99.52	1.00e+03	n/a
S961002675	W	Oxalate by IC - Dionex 4000	ug/g	102.0	<1.05e-01	5.22e+03	4.91e+03	5.06e+03	6.12	100.0	793.4	n/a

Lower Half of Segment: L Lower Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002664	F	Bulk Density of Sample	g/ml	n/a	n/a	0.550	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002666	DSC	Exotherm using Mettler	Joules/g	111.1	n/a	97.40	111.8	104.6	13.3	n/a	n/a	n/a
S961002666	DSC	Exotherm dry Calculated	Joules/g dry	n/a	n/a	1.76e+02	201.8	188.3	7.8	n/a	n/a	n/a
S961002666	X	Water by TGA using Mettler	%	98.89	n/a	45.26	42.96	44.61	6.40	n/a	n/a	n/a
S961002665	F	IC by Acid/Coulometry	ug/g	99.17	3.800	1.02e+04	1.16e+04	1.09e+04	12.8	n/a	200.0	n/a
S961002665	F	IC by Persulfate/Coulometry	ug/g	92.00	8.100	1.02e+04	1.16e+04	1.09e+04	12.8	n/a	200.0	n/a
S961002672	F	Silver - ICP-Fusion	ug/g	96.40	<1.00e-02	2.01e+02	2.01e+02	2.66e+04	9.02	97.50	1.00e+03	n/a
S961002672	F	Aluminum - ICP-Fusion	ug/g	100.0	6.60e-02	2.34e+03	2.08e+04	2.66e+04	9.02	99.50	2.01e+03	n/a
S961002672	F	Arsenic - ICP-Fusion	ug/g	102.2	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	98.80	1.00e+03	n/a
S961002672	F	Boron - ICP-Fusion	ug/g	102.2	<1.00e-02	2.01e+03	2.01e+03	n/a	n/a	100.2	1.00e+03	n/a
S961002672	F	Barium - ICP-Fusion	ug/g	104.2	<1.00e-01	2.01e+02	2.01e+02	n/a	n/a	100.2	1.00e+03	n/a
S961002672	F	Beryllium - ICP-Fusion	ug/g	101.2	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	100.2	2.01e+03	n/a
S961002672	F	Bismuth - ICP-Fusion	ug/g	101.2	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	102.7	2.01e+03	n/a
S961002672	F	Calcium - ICP-Fusion	ug/g	100.8	<1.00e-02	2.01e+03	2.01e+03	n/a	n/a	97.60	100.0	n/a
S961002672	F	Cadmium - ICP-Fusion	ug/g	104.0	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	100.7	2.01e+03	n/a
S961002672	F	Cerium - ICP-Fusion	ug/g	99.00	<2.00e-02	2.01e+02	44.02e+2	n/a	n/a	95.10	401.0	n/a
S961002672	F	Chromium - ICP-Fusion	ug/g	100.6	<1.00e-02	1.52e+03	1.52e+03	1.32e+03	0.00	98.10	200.0	n/a
S961002672	F	Cobalt - ICP-Fusion	ug/g	101.0	<1.00e-02	2.01e+02	2.01e+02	n/a	n/a	101.2	200.0	n/a
S961002672	F	Copper - ICP-Fusion	ug/g	103.4	<5.00e-02	2.01e+03	2.01e+03	n/a	n/a	103.4	1.00e+03	n/a
S961002672	F	Fluorine - ICP-Fusion	ug/g	100.4	<5.00e-01	6.35e+06	n/a	n/a	n/a	103.4	1.00e+03	n/a
S961002672	F	Iron - ICP-Fusion	ug/g	102.8	<5.00e-02	2.01e+02	2.01e+02	n/a	n/a	95.10	200.0	n/a
S961002672	F	Lanthanum - ICP-Fusion	ug/g	98.20	<1.00e-01	2.01e+02	2.01e+02	n/a	n/a	94.40	2.01e+03	n/a
S961002672	F	Magnesium - ICP-Fusion	ug/g	101.0	<1.00e-02	2.01e+02	2.01e+02	n/a	n/a	99.50	200.0	n/a
S961002672	F	Manganese - ICP-Fusion	ug/g	99.00	<5.00e-02	2.01e+02	2.01e+02	n/a	n/a	95.60	1.00e+03	n/a
S961002672	F	Molybdenum - ICP-Fusion	ug/g	99.00	<5.00e-02	2.01e+02	2.01e+02	n/a	n/a	103.0	2.01e+03	n/a
S961002672	F	Sodium - ICP-Fusion	ug/g	109.4	<1.00e-01	2.32e+05	2.33e+05	2.32e+05	0.43	103.0	2.01e+03	n/a
S961002672	F	Nickel - ICP-Fusion	ug/g	100.6	<1.18e-01	5.24e+03	2.01e+03	5.80e+03	n/a	111.7	2.01e+03	n/a
S961002672	F	Phosphorus - ICP-Fusion	ug/g	101.2	<2.00e-01	44.01e+3	44.01e+3	n/a	n/a	98.00	401.0	n/a
S961002672	F	Lead - ICP-Fusion	ug/g	100.8	<1.00e-01	2.01e+03	44.02e+3	n/a	n/a	104.6	4.01e+03	n/a
S961002672	F	Sulfur - ICP-Fusion	ug/g	98.20	<1.00e-01	5.97e+03	6.09e+03	6.01e+03	1.33	94.60	2.01e+03	n/a
S961002672	F	Antimony - ICP-Fusion	ug/g	94.60	<6.00e-02	1.20e+03	1.20e+03	n/a	n/a	91.20	1.20e+03	n/a
S961002672	F	Selenium - ICP-Fusion	ug/g	97.80	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	94.90	2.01e+03	n/a
S961002672	F	Silicon - ICP-Fusion	ug/g	94.40	<5.00e-02	2.01e+03	3.65e+03	n/a	n/a	95.70	1.00e+03	n/a
S961002672	F	Strontium - ICP-Fusion	ug/g	102.0	<1.00e-01	2.01e+03	2.01e+03	n/a	n/a	100.2	2.01e+03	n/a
S961002672	F	Titanium - ICP-Fusion	ug/g	96.80	<1.00e-02	2.01e+02	2.01e+02	n/a	n/a	95.10	200.0	n/a
S961002672	F	Thallium - ICP-Fusion	ug/g	97.80	<2.00e-01	44.01e+03	44.02e+3	n/a	n/a	90.50	4.01e+03	n/a
S961002672	F	Uranium - ICP-Fusion	ug/g	96.80	<5.00e-01	1.00e+04	<1.00e+4	n/a	n/a	93.90	1.00e+03	n/a
S961002672	F	Vanadium - ICP-Fusion	ug/g	100.6	<5.00e-02	1.00e+03	<1.00e+3	n/a	n/a	98.80	1.00e+03	n/a
S961002672	F	Zinc - ICP-Fusion	ug/g	100.2	<2.40e-02	5.33e+02	804.0	668.5	40.5	98.60	200.0	n/a
S961002672	F	Zirconium - ICP-Fusion	ug/g	98.80	<1.00e-02	2.01e+02	2.01e+02	n/a	n/a	98.30	200.0	n/a
S961002672	F	Cobalt-60 by BEA	uc1/g	103.9	<5.28e-02	5.01e-02	<6.48e-2	n/a	n/a	n/a	5.00e-02	n/a

Sample #	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
3951002672	F	Cesium-137 by GEA	uCi/g	101.5	3.92E-01	2.66E+02	266.0	266.2	0.00	N/A	N/A	N/A	0.590
3951002672	F	Europium-154 by GEA	uCi/g	N/A	< 6.1E-01	< 2.48E-01	< 2.51E-1	N/A	N/A	N/A	2.48E-01	N/A	N/A
3951002672	F	Europium-155 by GEA	uCi/g	N/A	< 3.22E-01	< 7.83E-01	< 7.83E-1	N/A	N/A	N/A	7.83E-01	N/A	N/A
3951002672	F	Americium-241 by GEA	uCi/g	N/A	< 1.44E-01	< 2.022	< 2.07E0	N/A	N/A	N/A	2.022	N/A	N/A
3951002672	F	Alpha of Digested Solid	uCi/g	113.3	< 2.74E-03	1.06E-01	1.21E-01	1.19E-01	13.2	103.3	7.00E-03	1.72E-01	N/A
3951002674	A	Silver - ICP-Acid Digest	ug/g	84.60	< 4.00E-02	12.90	15.30	14.10	17.0	N/A	4.920	N/A	N/A
3951002674	A	Aluminum - ICP-Acid Digest	ug/g	84.80	< 5.00E-02	2.02E+04	1.43E+04	1.72E+04	34.2	N/A	28.60	N/A	N/A
3951002674	A	Arsenic - ICP-Acid Digest	ug/g	89.80	< 4.00E-01	< 49.20	< 5.06E1	45.65	0.22	N/A	49.20	N/A	N/A
3951002674	A	Boron - ICP-Acid Digest	ug/g	85.60	< 5.00E-02	< 24.60	< 2.53E1	N/A	N/A	N/A	28.60	N/A	N/A
3951002674	A	Barium - ICP-Acid Digest	ug/g	85.60	< 5.00E-02	< 24.60	< 2.53E1	N/A	N/A	N/A	28.60	N/A	N/A
3951002674	A	Beryllium - ICP-Acid Digest	ug/g	87.00	< 5.00E-01	< 2.460	< 2.53E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Bismuth - ICP-Acid Digest	ug/g	87.00	< 5.00E-01	< 2.460	< 2.53E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Calcium - ICP-Acid Digest	ug/g	86.20	< 4.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Cadmium - ICP-Acid Digest	ug/g	85.40	< 5.00E-03	3.31E+02	356.0	343.5	7.28	N/A	2.460	N/A	N/A
3951002674	A	Cerium - ICP-Acid Digest	ug/g	90.20	< 4.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Cobalt - ICP-Acid Digest	ug/g	87.00	< 2.00E-02	1.08E+03	4.11E+03	2.60E+03	117	N/A	4.920	N/A	N/A
3951002674	A	Chromium - ICP-Acid Digest	ug/g	86.40	< 4.00E-02	6.070	< 5.06E0	N/A	N/A	N/A	4.920	N/A	N/A
3951002674	A	Copper - ICP-Acid Digest	ug/g	87.00	< 5.00E-01	2.36E+03	1.60E+03	1.90E+03	31.6	N/A	28.60	N/A	N/A
3951002674	A	Potassium - ICP-Acid Digest	ug/g	79.80	< 5.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Lanthanum - ICP-Acid Digest	ug/g	87.00	< 5.00E-02	< 24.60	< 2.53E1	N/A	N/A	N/A	28.60	N/A	N/A
3951002674	A	Lithium - ICP-Acid Digest	ug/g	87.20	< 4.00E-02	< 4.920	< 5.06E1	N/A	N/A	N/A	4.920	N/A	N/A
3951002674	A	Magnesium - ICP-Acid Digest	ug/g	85.00	< 4.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Manganese - ICP-Acid Digest	ug/g	84.00	< 4.00E-02	10.90	33.70	203.9	130	N/A	4.920	N/A	N/A
3951002674	A	Molybdenum - ICP-Acid Digest	ug/g	86.00	< 5.00E-02	64.20	42.70	53.45	40.2	N/A	28.60	N/A	N/A
3951002674	A	Sodium - ICP-Acid Digest	ug/g	88.80	< 1.70E-01	1.68E+05	2.00E+05	1.80E+05	21.3	N/A	49.20	N/A	N/A
3951002674	A	Niobium - ICP-Acid Digest	ug/g	86.60	< 4.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Nickel - ICP-Acid Digest	ug/g	87.20	< 4.00E-01	1.33E0	1.07E0	100.1	13.8	N/A	28.60	N/A	N/A
3951002674	A	Phosphorus - ICP-Acid Digest	ug/g	87.20	< 4.00E-01	1.33E0	1.37E+03	1.30E+03	10.8	N/A	49.20	N/A	N/A
3951002674	A	Lead - ICP-Acid Digest	ug/g	87.60	< 4.00E-01	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Sulfur - ICP-Acid Digest	ug/g	87.60	< 4.00E-02	5.58E+03	9.72E+03	7.78E+03	54.8	N/A	49.20	N/A	N/A
3951002674	A	Antimony - ICP-Acid Digest	ug/g	87.60	< 4.00E-02	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Selenium - ICP-Acid Digest	ug/g	87.60	< 4.00E-02	1.24E0	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Silicon - ICP-Acid Digest	ug/g	88.40	< 4.00E-02	< 49.20	< 5.06E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Strontium - ICP-Acid Digest	ug/g	87.00	< 4.00E-02	< 4.920	< 5.06E1	N/A	N/A	N/A	4.920	N/A	N/A
3951002674	A	Tantalum - ICP-Acid Digest	ug/g	81.00	< 4.00E-02	< 4.920	< 5.06E1	N/A	N/A	N/A	4.920	N/A	N/A
3951002674	A	Thallium - ICP-Acid Digest	ug/g	82.20	< 5.00E-01	< 99.30	< 1.01E2	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Titanium - ICP-Acid Digest	ug/g	84.20	< 5.00E-01	< 2.64E02	267.0	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Uranium - ICP-Acid Digest	ug/g	85.60	< 5.00E-02	< 20.60	< 2.53E1	N/A	N/A	N/A	49.20	N/A	N/A
3951002674	A	Zinc - ICP-Acid Digest	ug/g	84.20	< 1.30E-02	< 20.60	< 2.53E1	27.35	47.2	N/A	4.920	N/A	N/A
3951002674	A	Zirconium - ICP-Acid Digest	ug/g	84.20	< 1.30E-02	< 9.97	< 1.03E2	N/A	N/A	N/A	49.20	N/A	N/A
3951002676	W	Fluoride [C-Dioxane 40001/4500]	ug/g	104.7	< 1.30E-02	< 9.97	< 1.03E2	6.91E+03	4.16	N/A	132.4	N/A	N/A
3951002676	W	Chloride [C-Dioxane 40001/4500]	ug/g	101.5	< 1.70E-02	8.20E+03	7.83E+03	8.03E+03	5.10	N/A	771.6	N/A	N/A
3951002676	W	Nitrate by IC - Dioxane 40001/4500	ug/g	95.21	< 1.40E-01	< 9.97E+02	< 9.97E2	N/A	N/A	N/A	909.0	N/A	N/A
3951002676	W	Nitrate by Ion Chromatograph	ug/g	95.48	< 1.40E-01	1.42E+05	1.46E+05	1.39E+05	4.92	N/A	1.01E+06	N/A	N/A
3951002676	W	Nitrate by IC-Dioxane 40001/4500	ug/g	98.37	< 1.90E-01	2.25E+03	2.25E+03	2.72E+03	4.92	N/A	857.7	N/A	N/A
3951002676	W	Phosphate by IC-Dioxane 40001/4500	ug/g	99.48	< 1.35E-01	1.76E+04	1.76E+04	1.77E+04	1.70	N/A	957.7	N/A	N/A
3951002676	W	Sulfate by IC-Dioxane 40001/4500	ug/g	99.48	< 1.35E-01	1.76E+04	1.76E+04	1.77E+04	1.70	N/A	957.7	N/A	N/A
3951002676	W	Oxalate by IC - Dioxane 40001	ug/g	102.0	< 1.05E-01	6.91E+03	7.10E+03	7.01E+03	2.71	N/A	757.3	N/A	N/A

CORE NUMBER: 143
SEGMENT #: 6

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample #	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002754		Bulk Density of Sample	g/mL	112.1	N/A	1.650		N/A	N/A	N/A	5.00e-01	N/A
S961002755		DSC Exotherm Using Mettler	Joules/g	112.1	N/A	70.20	62.76	66.48	12.1	N/A	N/A	N/A
S961002755		DSC Exotherm DRY Calculated	Joules/g	98.68	N/A	1.19e+02	105.8	112.2	12.1	N/A	N/A	N/A
S961002755		% Water by TGA using Mettler	%	98.68	N/A	41.48	40.78	41.10	2.36	N/A	N/A	N/A
S961002755		TIC by ACD/Countmetry	ug/g	99.17	3.800	9.53e+03	1.01e+04	9.82e+03	5.81	103.0	5.00	N/A
S961002755		TIC by Persulfate/Coulometry	ug/g	92.00	8.100	8.25e+03	9.13e+03	8.89e+03	5.40	103.0	20.00	N/A
S961002755		F Silver - ICP-Fusion	ug/g	98.40	< 1.00e-02	< 2.00e+04	< 4.92e+04	< 4.92e+04	7.200	97.200	93.0	N/A
S961002755		F Aluminum - ICP-Fusion	ug/g	100.0	< 6.00e-02	< 2.00e+04	1.89e+04	1.94e+04	5.66	95.80	93.0	N/A
S961002755		F Arsenic - ICP-Fusion	ug/g	102.2	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	98.00	1.87e+03	N/A
S961002755		F Boron - ICP-Fusion	ug/g	102.2	< 5.00e-02	< 9.33e+02	< 1.01e+3	N/A	N/A	98.00	93.0	N/A
S961002755		F Barium - ICP-Fusion	ug/g	101.2	< 5.00e-02	< 9.33e+02	< 1.01e+3	N/A	N/A	98.00	93.0	N/A
S961002755		F Beryllium - ICP-Fusion	ug/g	104.2	< 5.00e-03	< 93.30	< 1.01e+2	N/A	N/A	96.80	1.87e+03	N/A
S961002755		F Bismuth - ICP-Fusion	ug/g	100.4	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	102.7	1.87e+03	N/A
S961002755		F Calcium - ICP-Fusion	ug/g	101.2	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	102.7	1.87e+03	N/A
S961002755		F Cadmium - ICP-Fusion	ug/g	100.8	< 5.00e-03	< 93.30	< 1.01e+2	N/A	N/A	96.30	93.0	N/A
S961002755		F Cerium - ICP-Fusion	ug/g	104.0	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	102.9	1.87e+03	N/A
S961002755		F Cobalt - ICP-Fusion	ug/g	99.00	< 2.00e-02	< 7.73e+02	< 4.04e+2	N/A	N/A	94.10	1.87e+03	N/A
S961002755		F Chromium - ICP-Fusion	ug/g	100.6	< 1.00e-02	< 1.43e+03	< 1.41e+03	1.42e+03	1.41	96.00	187.0	N/A
S961002755		F Copper - ICP-Fusion	ug/g	101.0	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	100.7	187.0	N/A
S961002755		F Iron - ICP-Fusion	ug/g	103.4	< 5.00e-02	< 9.33e+02	< 1.01e+3	N/A	N/A	102.7	933.0	N/A
S961002755		F Potassium - ICP-Fusion	ug/g	100.4	< 5.00e-01	6.93e+06	< 1.01e+7	N/A	N/A	N/A	9.33e+03	N/A
S961002755		F Lanthanum - ICP-Fusion	ug/g	102.8	< 5.00e-02	< 9.33e+02	< 1.01e+3	N/A	N/A	102.0	933.0	N/A
S961002755		F Lithium - ICP-Fusion	ug/g	100.6	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	93.90	187.0	N/A
S961002755		F Magnesium - ICP-Fusion	ug/g	98.20	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	92.70	1.87e+03	N/A
S961002755		F Manganese - ICP-Fusion	ug/g	101.0	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	97.80	187.0	N/A
S961002755		F Molybdenum - ICP-Fusion	ug/g	99.00	< 5.00e-02	< 9.33e+02	< 1.01e+3	N/A	N/A	94.40	933.0	N/A
S961002755		F Neodymium - ICP-Fusion	ug/g	99.80	< 1.870	2.45e+05	2.45e+05	2.45e+05	0.00	89.50	1.87e+03	N/A
S961002755		F Nickel - ICP-Fusion	ug/g	109.4	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	113.9	1.87e+03	N/A
S961002755		F Phosphorus - ICP-Fusion	ug/g	100.6	< 1.00e-01	5.72e+03	3.15e+03	4.28e+03	53.0	96.10	373.0	N/A
S961002755		F Lead - ICP-Fusion	ug/g	101.2	< 2.00e-01	< 3.73e+03	< 4.04e+3	N/A	N/A	103.7	3.73e+03	N/A
S961002755		F Sulfur - ICP-Fusion	ug/g	98.20	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	100.5	1.87e+03	N/A
S961002755		F Antimony - ICP-Fusion	ug/g	94.60	< 5.00e-02	< 1.21e+03	< 1.21e+3	5.95e+03	0.67	91.10	1.87e+03	N/A
S961002755		F Selenium - ICP-Fusion	ug/g	97.80	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	89.80	1.21e+03	N/A
S961002755		F Silicon - ICP-Fusion	ug/g	94.40	< 5.00e-02	< 9.33e+02	< 2.02e+2	N/A	N/A	94.40	1.87e+03	N/A
S961002755		F Samarium - ICP-Fusion	ug/g	102.0	< 1.00e-01	< 1.87e+03	< 2.02e+3	N/A	N/A	95.90	933.0	N/A
S961002755		F Strontium - ICP-Fusion	ug/g	101.0	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	97.30	1.87e+03	N/A
S961002755		F Titanium - ICP-Fusion	ug/g	96.80	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	93.70	187.0	N/A
S961002755		F Thallium - ICP-Fusion	ug/g	97.80	< 2.00e-01	< 3.73e+03	< 4.04e+3	N/A	N/A	99.00	3.73e+03	N/A
S961002755		F Vanadium - ICP-Fusion	ug/g	96.80	< 5.00e-01	< 9.33e+03	< 1.01e+4	N/A	N/A	86.70	9.33e+03	N/A
S961002755		F Zirconium - ICP-Fusion	ug/g	100.6	< 5.00e-02	< 8.39e+02	< 1.01e+3	N/A	N/A	98.00	933.0	N/A
S961002755		F Zinc - ICP-Fusion	ug/g	100.2	< 2.00e-02	8.39e+02	784.0	811.5	6.78	95.00	187.0	N/A
S961002755		F Zirconium - ICP-Fusion	ug/g	98.80	< 1.00e-02	< 1.87e+02	< 2.02e+2	N/A	N/A	97.10	187.0	N/A

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A-0002-3

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Exp.
S961002757	F	Cobalt-60 by GEA	uCi/g	103.9	< 5.28e-02	< 7.65e-02	< 5.95e-2	N/A	N/A	N/A	7.70E-02	N/A
S961002757	F	Cesium-137 by GEA	uCi/g	101.5	3.92e-01	1.95e+02	191.0	193.1	2.07	N/A	1.94e-01	N/A
S961002757	F	Europium-154 by GEA	uCi/g	N/A	< 1.61e-01	< 1.94e-01	< 2.10e-1	N/A	N/A	N/A	6.39e-01	N/A
S961002757	F	Europium-155 by GEA	uCi/g	N/A	< 1.22e-01	< 6.39e-01	< 6.64e-1	N/A	N/A	N/A	1.692	N/A
S961002757	F	Americium-241 by GEA	uCi/g	N/A	< 3.14e-01	< 1.692	< 1.74e0	N/A	N/A	N/A	4.480	N/A
S961002758	A	Silver - ICP-Acid Digest	ug/g	84.60	< 1.00e-02	13.10	12.80	12.95	2.32	N/A	22.40	N/A
S961002758	A	Aluminum - ICP-Acid Digest	ug/g	84.80	< 5.00e-02	1.50e+04	1.48e+04	1.49e+04	1.34	N/A	44.80	N/A
S961002758	A	Aluminum - ICP-Acid Digest	ug/g	89.80	< 1.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	22.40	N/A
S961002758	A	Arsenic - ICP-Acid Digest	ug/g	85.60	< 5.00e-02	< 1.30	32.20	36.75	24.8	N/A	22.40	N/A
S961002758	A	Boron - ICP-Acid Digest	ug/g	85.60	< 5.00e-02	< 2.40	< 2.35e0	N/A	N/A	N/A	22.40	N/A
S961002758	A	Boron - ICP-Acid Digest	ug/g	94.60	< 5.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	22.40	N/A
S961002758	A	Beryllium - ICP-Acid Digest	ug/g	84.00	< 5.00e-01	3.21e+02	274.0	297.5	15.8	N/A	44.80	N/A
S961002758	A	Bismuth - ICP-Acid Digest	ug/g	84.20	< 6.00e-01	< 4.100	4.300	4.300	9.30	N/A	22.40	N/A
S961002758	A	Calcium - ICP-Acid Digest	ug/g	90.20	< 1.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	44.80	N/A
S961002758	A	Cadmium - ICP-Acid Digest	ug/g	87.40	< 2.00e-02	< 8.90	< 9.38e0	N/A	N/A	N/A	8.970	N/A
S961002758	A	Cadmium - ICP-Acid Digest	ug/g	87.40	< 1.00e-02	1.04e+03	1.08e+03	1.06e+03	3.77	N/A	4.480	N/A
S961002758	A	Chromium - ICP-Acid Digest	ug/g	84.40	< 1.00e-02	5.740	5.560	5.65	1.23	N/A	4.480	N/A
S961002758	A	Copper - ICP-Acid Digest	ug/g	87.00	< 5.00e-02	3.69e+02	338.0	353.5	8.77	N/A	22.40	N/A
S961002758	A	Iron - ICP-Acid Digest	ug/g	87.80	< 5.00e-01	1.61e+03	1.61e+03	1.61e+03	0.00	N/A	22.40	N/A
S961002758	A	Lanthanum - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	< 22.40	< 2.35e1	N/A	N/A	N/A	22.40	N/A
S961002758	A	Lanthanum - ICP-Acid Digest	ug/g	87.20	< 1.00e-02	15.70	15.80	15.75	0.63	N/A	4.480	N/A
S961002758	A	Lithium - ICP-Acid Digest	ug/g	85.00	< 1.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	44.80	N/A
S961002758	A	Magnesium - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	72.80	72.20	72.50	0.83	N/A	22.40	N/A
S961002758	A	Manganese - ICP-Acid Digest	ug/g	84.00	< 5.00e-02	45.20	45.70	45.45	1.10	N/A	44.80	N/A
S961002758	A	Molybdenum - ICP-Acid Digest	ug/g	88.80	< 1.00e-01	1.70e+05	1.69e+05	1.70e+05	0.59	N/A	44.80	N/A
S961002758	A	Sodium - ICP-Acid Digest	ug/g	84.60	< 1.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	44.80	N/A
S961002758	A	Sodium - ICP-Acid Digest	ug/g	87.20	< 2.00e-02	75.00	73.90	74.45	1.48	N/A	8.970	N/A
S961002758	A	Nickel - ICP-Acid Digest	ug/g	93.00	< 2.00e-01	1.24e+03	1.30e+03	1.27e+03	4.72	N/A	89.70	N/A
S961002758	A	Phosphorus - ICP-Acid Digest	ug/g	83.20	< 1.00e-01	46.40	47.10	46.75	1.50	N/A	44.80	N/A
S961002758	A	Lead - ICP-Acid Digest	ug/g	87.80	< 1.00e-01	5.38e+03	5.38e+03	5.37e+03	0.37	N/A	44.80	N/A
S961002758	A	Sulfur - ICP-Acid Digest	ug/g	89.20	< 6.00e-02	< 26.90	< 2.81e1	N/A	N/A	N/A	26.90	N/A
S961002758	A	Antimony - ICP-Acid Digest	ug/g	84.00	< 1.00e-01	47.10	51.20	49.15	8.34	N/A	44.80	N/A
S961002758	A	Selenium - ICP-Acid Digest	ug/g	89.00	< 9.00e-02	1.43e+02	163.0	153.0	13.1	N/A	44.80	N/A
S961002758	A	Samarium - ICP-Acid Digest	ug/g	85.60	< 1.00e-01	< 44.80	< 4.69e1	N/A	N/A	N/A	44.80	N/A
S961002758	A	Samarium - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	< 4.80	< 4.69e0	N/A	N/A	N/A	4.480	N/A
S961002758	A	Strontium - ICP-Acid Digest	ug/g	81.00	< 1.00e-02	< 89.70	< 9.38e1	N/A	N/A	N/A	89.70	N/A
S961002758	A	Titanium - ICP-Acid Digest	ug/g	82.20	< 2.00e-01	< 2.24e+02	< 2.35e2	N/A	N/A	N/A	22.40	N/A
S961002758	A	Thallium - ICP-Acid Digest	ug/g	84.20	< 5.00e-01	< 22.40	< 2.35e1	N/A	N/A	N/A	22.40	N/A
S961002758	A	Uranium - ICP-Acid Digest	ug/g	85.60	< 1.00e-02	21.00	20.20	20.60	3.88	N/A	4.480	N/A
S961002758	A	Vanadium - ICP-Acid Digest	ug/g	84.20	< 1.00e-02	6.000	8.260	7.130	31.7	N/A	4.480	N/A
S961002758	A	Zinc - ICP-Acid Digest	ug/g	92.20	< 1.00e-02	< 1.48e+02	< 1.27e2	N/A	N/A	N/A	121.77	N/A
S961002758	V	Fluoride - IC - Dionex 4000/14500	ug/g	101.2	< 1.30e-02	4.81e+03	4.94e+03	4.94e+03	5.26	N/A	148.3	N/A
S961002759	V	Chloride - IC - Dionex 4000/14500	ug/g	92.55	< 1.07e-01	5.07e+03	5.37e+04	5.19e+04	4.37	N/A	1.22e+03	N/A
S961002759	V	Nitrite - IC - Dionex 4000/14500	ug/g	98.00	< 1.26e-01	< 1.44e+03	< 1.23e3	N/A	N/A	N/A	1.44e+03	N/A
S961002759	V	Bromide by Ion Chromatograph	ug/g	97.07	< 1.40e-01	2.57e+05	2.71e+05	2.64e+05	5.30	N/A	93.74	N/A
S961002759	V	Nitrate by IC - Dionex4000/14500	ug/g	96.15	< 1.19e-01	4.03e+03	3.29e+03	3.66e+03	20.2	N/A	1.60e+03	N/A
S961002759	V	Phosphate - IC - Dionex4000/14500	ug/g	98.89	< 1.36e-01	2.02e+04	1.81e+04	1.91e+04	1.0	N/A	1.55e+03	N/A
S961002759	V	Sulfate by IC - Dionex 4000/14500	ug/g	103.0	< 1.05e-01	6.59e+03	5.72e+03	6.15e+03	14.1	N/A	1.20e+03	N/A

Table 1. Data Summary Report
U-102

CORE NUMBER: 143

SEGMENT #: Core Composite

SEGMENT PORTION: Core Composite

Sample #	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err
S961003680	F	Bulk Density of Sample	g/mL	N/A	N/A	1.680	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961003678	F	DSC Exotherm using Mettler	Joules/g	106.2	N/A	1.60e+02	128.2	144.1	22.1	N/A	N/A	N/A
S961003678	F	DSC Exotherm Dry Calculated	Joules/g Dry	99.58	N/A	2.76e+02	221.0	248.5	22.1	N/A	N/A	N/A
S961003678	F	% Water by TGA using Mettler	%	99.58	N/A	43.36	40.68	42.02	6.38	N/A	N/A	N/A
S961003678	F	TIC by Acid/Coulometry	ug/g	100.2	3.00e-01	9.83e+03	1.06e+04	1.02e+04	7.54	107.0	5.000	N/A
S961003678	F	TOC by Persulfate/Coulometry	ug/g	94.67	1.900	8.39e+03	9.11e+03	8.75e+03	8.23	106.0	40.00	N/A
S961003680	F	Uranium by Phosphorescence	ug/g	96.86	<1.990	1.55e+02	130.0	142.5	17.5	N/A	2.000	1.8
S961003680	F	U-Phosphorescence Inst. Error	% Inst Error	1.80	N/A	1.800	1.800	1.800	1.80	N/A	N/A	N/A
S961003680	F	Strontium-89/90 High Level	uCi/g	97.54	6.20e-02	40.40	37.40	38.90	7.71	N/A	1.20e-02	5.22E-01
S961003680	F	Silver - ICP-Fusion	ug/g	98.40	<1.00e-02	<2.22e+02	<2.21e3	N/A	N/A	85.00	222.0	N/A
S961003680	F	Aluminum - ICP-Fusion	ug/g	98.00	<5.00e-01	1.92e+04	1.82e+04	1.87e+04	5.35	92.50	1.22e+03	N/A
S961003680	F	Arsenic - ICP-Fusion	ug/g	104.6	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	104.0	2.22e+03	N/A
S961003680	F	Boron - ICP-Fusion	ug/g	99.60	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	96.30	1.11e+03	N/A
S961003680	F	Barium - ICP-Fusion	ug/g	98.40	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	95.10	1.11e+03	N/A
S961003680	F	Beryllium - ICP-Fusion	ug/g	101.6	<5.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.60	11.0	N/A
S961003680	F	Bismuth - ICP-Fusion	ug/g	102.8	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.60	2.22e+03	N/A
S961003680	F	Calcium - ICP-Fusion	ug/g	99.00	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.00	2.22e+03	N/A
S961003680	F	Cadmium - ICP-Fusion	ug/g	100.4	<5.00e-03	<1.11e+02	<1.1e2	N/A	N/A	97.70	11.0	N/A
S961003680	F	Cerium - ICP-Fusion	ug/g	101.4	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.80	2.22e+03	N/A
S961003680	F	Cobalt - ICP-Fusion	ug/g	102.6	<2.00e-02	<4.43e+02	<4.42e2	N/A	N/A	100.0	443.0	N/A
S961003680	F	Chromium - ICP-Fusion	ug/g	100.0	<1.00e-02	<2.22e+03	<2.74e+03	2.80e+03	4.20	96.60	222.0	N/A
S961003680	F	Copper - ICP-Fusion	ug/g	99.40	<1.00e-02	<2.22e+02	<2.21e2	N/A	N/A	97.10	222.0	N/A
S961003680	F	Iron - ICP-Fusion	ug/g	100.0	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	98.60	1.11e+03	N/A
S961003680	F	Potassium - ICP-Fusion	ug/g	105.8	<5.00e-01	5.90e+06	N/A	N/A	N/A	N/A	1.11e+04	N/A
S961003680	F	Lanthanum - ICP-Fusion	ug/g	101.8	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	100.0	222.0	N/A
S961003680	F	Lithium - ICP-Fusion	ug/g	100.2	<1.00e-02	<2.22e+02	<2.21e2	N/A	N/A	97.80	222.0	N/A
S961003680	F	Magnesium - ICP-Fusion	ug/g	95.00	<1.00e-01	<2.22e+02	<2.21e3	N/A	N/A	93.10	2.22e+03	N/A
S961003680	F	Manganese - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.22e+02	<2.21e2	N/A	N/A	93.20	222.0	N/A
S961003680	F	Molybdenum - ICP-Fusion	ug/g	101.6	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	99.30	1.11e+03	N/A
S961003680	F	Sodium - ICP-Fusion	ug/g	98.20	2.000	2.39e+05	2.41e05	2.40e+05	0.83	69.10	2.22e+03	N/A
S961003680	F	Neodymium - ICP-Fusion	ug/g	99.80	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.20	2.22e+03	N/A
S961003680	F	Nickel - ICP-Fusion	ug/g	103.8	7.70e-02	5.13e+02	6.70e2	591.5	26.5	91.0	443.0	N/A
S961003680	F	Phosphorus - ICP-Fusion	ug/g	104.6	<1.00e-01	<4.43e+03	<4.42e3	N/A	N/A	111.0	4.43e+03	N/A
S961003680	F	Sulfur - ICP-Fusion	ug/g	98.60	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	95.60	2.22e+03	N/A
S961003680	F	Lead - ICP-Fusion	ug/g	101.4	<1.00e-01	5.77e+03	6.01e+03	5.89e+03	4.07	98.70	2.22e+03	N/A
S961003680	F	Antimony - ICP-Fusion	ug/g	96.80	<5.00e-02	<1.33e+03	<1.33e3	N/A	N/A	93.20	1.33e+03	N/A
S961003680	F	Selenium - ICP-Fusion	ug/g	96.60	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	98.60	2.22e+03	N/A
S961003680	F	Silicon - ICP-Fusion	ug/g	95.40	<5.00e-02	<1.11e+03	<1.1e3	N/A	N/A	94.60	1.11e+03	N/A
S961003680	F	Samarium - ICP-Fusion	ug/g	97.80	<1.00e-01	<2.22e+03	<2.21e3	N/A	N/A	94.60	2.22e+03	N/A
S961003680	F	Strontium - ICP-Fusion	ug/g	98.40	<1.00e-02	<2.22e+02	<2.21e2	N/A	N/A	96.40	222.0	N/A
S961003680	F	Titanium - ICP-Fusion	ug/g	97.40	<1.00e-02	<2.22e+02	<2.21e2	N/A	N/A	95.60	222.0	N/A
S961003680	F	Thallium - ICP-Fusion	ug/g	96.00	<2.00e-01	<4.43e+03	<4.42e3	N/A	N/A	95.00	4.43e+03	N/A
S961003680	F	Uranium - ICP-Fusion	ug/g	95.50	<5.00e-01	<1.11e+04	<1.1e4	N/A	N/A	88.50	1.11e+04	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk rec %	Det Limit	Count Err%
S961003560	F	Vanadium - ICP-Fusion	ug/g	99.20	< 5.00e-02	< 1.1e+03	< 1.1e3	N/A	N/A	96.60	1.1e+03	N/A
S961003560	F	Zinc - ICP-Fusion	ug/g	100.0	< 1.00e-02	< 2.2e+02	< 2.2e2	N/A	N/A	97.80	222.0	N/A
S961003560	F	Zirconium - ICP-Fusion	ug/g	98.80	< 1.00e-02	< 2.2e+02	< 2.2e2	N/A	N/A	96.10	222.0	N/A
S961003560	F	Cobalt-60 by GEA	uCi/g	102.4	< 7.21e-02	< 6.71e-02	< 9.00e-2	N/A	N/A	N/A	6.70e-02	N/A
S961003560	F	Cesium-137 by GEA	uCi/g	100.0	< 4.88e-02	< 2.04e-02	192.0	197.6	N/A	N/A	N/A	0.700
S961003560	F	Europium-154 by GEA	uCi/g	N/A	< 1.91e-01	< 3.07e-01	< 4.82e-1	N/A	N/A	N/A	3.07e-01	N/A
S961003560	F	Europium-155 by GEA	uCi/g	N/A	< 2.19e-01	< 9.29e-01	< 4.22e-1	N/A	N/A	N/A	9.29e-01	N/A
S961003560	F	Americium-241 by GEA	uCi/g	N/A	< 4.30e-01	< 1.898	< 1.89e0	N/A	N/A	N/A	1.898	N/A
S961003560	F	Alpha of Digested Solid	uCi/g	110.2	< 6.91e-03	1.90e-01	1.74e-01	1.82e-01	8.70	N/A	1.40e-02	1.84E-01
S961003560	F	Beta of Solid Sample	uCi/g	110.6	1.94e-01	2.85e+02	275.0	280.0	3.57	N/A	7.40e-02	3.40E-01
S961003562	A	Silver - ICP-Acid Digest	ug/g	22.40	< 1.00e-02	14.70	14.30	14.50	2.76	93.70	5.150	N/A
S961003562	A	Aluminum - ICP-Acid Digest	ug/g	99.20	8.40e-02	1.68e+04	1.71e+04	1.70e+04	1.77	254.0	25.80	N/A
S961003562	A	Arsenic - ICP-Acid Digest	ug/g	116.8	4.51e-01	< 51.50	< 4.61e1	N/A	N/A	95.60	51.50	N/A
S961003562	A	Boron - ICP-Acid Digest	ug/g	93.00	< 5.00e-02	< 25.80	< 2.30e1	72.70	2.20	99.40	25.80	N/A
S961003562	A	Beryllium - ICP-Acid Digest	ug/g	96.60	< 1.00e-03	< 2.580	< 2.30e0	N/A	N/A	90.80	25.80	N/A
S961003562	A	Bismuth - ICP-Acid Digest	ug/g	96.60	< 1.00e-03	< 2.580	< 2.30e0	N/A	N/A	95.00	2.580	N/A
S961003562	A	Calcium - ICP-Acid Digest	ug/g	111.4	1.20e-01	2.17e+02	243.0	230.0	11.3	92.40	51.50	N/A
S961003562	A	Cadmium - ICP-Acid Digest	ug/g	94.40	< 5.00e-03	7.770	8.070	7.920	3.70	91.40	2.580	N/A
S961003562	A	Cerium - ICP-Acid Digest	ug/g	95.40	< 1.00e-01	< 51.50	< 4.61e1	N/A	N/A	94.60	51.50	N/A
S961003562	A	Cobalt - ICP-Acid Digest	ug/g	94.80	< 2.00e-02	< 10.30	< 9.22e0	N/A	N/A	93.80	10.30	N/A
S961003562	A	Chromium - ICP-Acid Digest	ug/g	93.00	< 1.00e-02	2.68e+03	2.84e+03	2.77e+03	6.50	132.0	5.150	N/A
S961003562	A	Copper - ICP-Acid Digest	ug/g	93.60	1.36e-01	3.69e+02	376.0	372.5	1.88	96.60	25.80	N/A
S961003562	A	Iron - ICP-Acid Digest	ug/g	92.80	< 5.00e-01	2.06e+03	2.05e+03	2.06e+03	0.49	111.8	258.0	N/A
S961003562	A	Lanthanum - ICP-Acid Digest	ug/g	96.20	< 5.00e-02	< 25.80	< 2.30e1	N/A	N/A	95.40	25.80	N/A
S961003562	A	Lithium - ICP-Acid Digest	ug/g	94.60	< 1.00e-02	< 5.150	< 4.61e1	N/A	N/A	95.80	5.150	N/A
S961003562	A	Magnesium - ICP-Acid Digest	ug/g	94.40	< 1.00e-01	< 51.50	< 4.61e1	N/A	N/A	88.40	51.50	N/A
S961003562	A	Manganese - ICP-Acid Digest	ug/g	90.00	< 1.00e-02	1.19e+02	123.0	121.0	3.31	89.60	5.150	N/A
S961003562	A	Molybdenum - ICP-Acid Digest	ug/g	94.40	< 5.00e-02	49.20	50.90	50.05	3.40	94.60	25.80	N/A
S961003562	A	Sodium - ICP-Acid Digest	ug/g	147.6	7.32e-01	1.93e+02	1.88e+02	1.90e+02	2.62	2.92e+03	51.50	N/A
S961003562	A	Neodymium - ICP-Acid Digest	ug/g	94.60	< 1.00e-02	< 51.50	< 4.61e1	N/A	N/A	94.60	51.50	N/A
S961003562	A	Nickel - ICP-Acid Digest	ug/g	92.60	< 2.00e-01	1.10e+02	113.0	111.5	2.69	95.40	10.30	N/A
S961003562	A	Phosphorus - ICP-Acid Digest	ug/g	90.00	< 1.00e-01	3.65e+03	3.44e+03	3.54e+03	5.92	111.4	103.0	N/A
S961003562	A	Lead - ICP-Acid Digest	ug/g	90.00	< 1.00e-01	64.60	67.70	66.15	4.69	91.40	51.50	N/A
S961003562	A	Sulfur - ICP-Acid Digest	ug/g	91.40	< 1.00e-01	5.97e+03	6.15e+03	6.06e+03	2.97	174.6	51.50	N/A
S961003562	A	Antimony - ICP-Acid Digest	ug/g	88.20	< 6.00e-02	< 30.90	< 2.77e1	N/A	N/A	88.40	31.00	N/A
S961003562	A	Selenium - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	< 51.50	< 4.61e1	N/A	N/A	93.00	51.50	N/A
S961003562	A	Silicon - ICP-Acid Digest	ug/g	73.60	1.48e-01	1.51e+02	146.0	148.5	3.37	120.8	25.80	N/A
S961003562	A	Strontium - ICP-Acid Digest	ug/g	93.00	< 1.00e-02	< 5.150	< 4.61e1	N/A	N/A	91.80	51.50	N/A
S961003562	A	Titanium - ICP-Acid Digest	ug/g	93.60	< 1.00e-02	< 5.150	< 4.61e0	N/A	N/A	91.40	5.150	N/A
S961003562	A	Thallium - ICP-Acid Digest	ug/g	92.40	< 1.00e-01	< 1.03e+02	< 9.22e1	N/A	N/A	89.00	103.0	N/A
S961003562	A	Uranium - ICP-Acid Digest	ug/g	88.20	< 2.00e-01	< 2.58e+02	< 2.30e2	N/A	N/A	95.30	258.0	N/A
S961003562	A	Vanadium - ICP-Acid Digest	ug/g	91.00	< 5.00e-01	< 25.80	< 2.30e1	N/A	N/A	91.40	25.80	N/A
S961003562	A	Zinc - ICP-Acid Digest	ug/g	92.60	1.80e-02	21.70	20.60	21.15	5.20	91.00	5.150	N/A
S961003562	A	Zirconium - ICP-Acid Digest	ug/g	89.60	< 1.00e-02	7.860	7.960	7.910	1.26	92.20	5.150	N/A
S961003564	F	Fluoride-IC-Dioxex 40001/4500	ug/g	97.12	< 1.30e-02	< 55.45	< 5.70e1	N/A	N/A	N/A	55.46	N/A
S961003564	F	Chloride-IC-Dioxex 40001/4500	ug/g	98.23	< 1.00e-02	4.51e+03	4.57e+03	4.54e+03	1.32	N/A	72.51	N/A
S961003564	F	Nitrite-IC - Dioxex 40001/4500	ug/g	92.83	< 1.07e-01	5.46e+04	5.72e+04	5.59e+04	4.65	N/A	456.3	N/A

Sample#	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961003484	W Ironide by Ion Chromatograph	ug/g	95.08	<1.26e-01	<5.36e-02	<5.33e-02	N/A	N/A	N/A	537.4	N/A
S961003484	W Nitrate by IC-Dionex4000/4500	ug/g	91.92	<1.40e-01	1.94e+05	2.03e+05	1.98e+05	4.53	N/A	596.8	N/A
S961003484	W Phosphate by IC-Dionex 4000/4500	ug/g	93.76	<1.19e-01	7.56e+03	8.99e+03	8.27e+03	17.3	N/A	507.1	N/A
S961003484	W Sulfate by IC-Dionex4000/4500	ug/g	95.82	<1.36e-01	1.51e+04	1.67e+04	1.59e+04	10.1	N/A	579.8	N/A
S961003484	W Oxalate by IC - Dionex 4000	ug/g	100.2	<1.05e-01	5.06e+03	5.58e+03	5.32e+03	9.77	N/A	447.9	N/A

Table 1. Data Summary Report
U-102

CORE NUMBER: 144
SEGMENT #: 1

SEGMENT PORTION: L Lower Half of Segment

Sample#	k #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002551		Bulk Density of Sample	g/mL	n/a	n/a	1.670	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002632		DSC Exotherm using Mettler	Joules/g	112.5	n/a	48.50	41.90	45.20	14.6	n/a	n/a	n/a
S961002632		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	80.15	69.24	74.69	14.6	n/a	n/a	n/a
S961002632		% Water by TGA using Mettler	%	98.36	n/a	40.77	38.20	39.48	6.51	n/a	n/a	n/a
S961002632		TIC by Acid/Coulometry	uW/g	98.01	1.400	8.09e+03	7.02e+03	7.56e+03	14.2	n/a	5.000	n/a
S961002632		TOC by Persulfate/Coulometry	uW/g	88.67	2.600	5.93e+03	5.99e+03	5.96e+03	1.01	n/a	40.00	n/a
S961002648		F Silver - ICP-Fusion	uW/g	99.40	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	90.70	198.0	n/a
S961002648		F Aluminum - ICP-Fusion	uW/g	97.20	<5.00e-02	2.21e+04	1.99e+04	2.10e+04	10.5	94.30	988.0	n/a
S961002648		F Arsenic - ICP-Fusion	uW/g	102.8	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	101.2	1.98e+03	n/a
S961002648		F Boron - ICP-Fusion	uW/g	99.80	<5.00e-02	<9.88e+02	<1.01e3	n/a	n/a	96.10	988.0	n/a
S961002648		F Barium - ICP-Fusion	uW/g	98.40	<5.00e-02	<9.88e+02	<1.01e3	n/a	n/a	94.90	988.0	n/a
S961002648		F Beryllium - ICP-Fusion	uW/g	102.4	<5.00e-03	<9.80	<1.01e2	n/a	n/a	98.80	98.80	n/a
S961002648		F Bismuth - ICP-Fusion	uW/g	100.6	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	96.80	1.98e+03	n/a
S961002648		F Calcium - ICP-Fusion	uW/g	101.6	<5.00e-01	<1.98e+03	<2.02e3	n/a	n/a	101.7	1.98e+03	n/a
S961002648		F Cadmium - ICP-Fusion	uW/g	100.4	<5.00e-03	<9.80	<1.01e2	n/a	n/a	98.80	98.80	n/a
S961002648		F Cerium - ICP-Fusion	uW/g	101.8	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	100.7	1.98e+03	n/a
S961002648		F Cobalt - ICP-Fusion	uW/g	100.4	<1.00e-02	<3.95e+02	<4.03e2	n/a	n/a	98.80	395.0	n/a
S961002648		F Chromium - ICP-Fusion	uW/g	101.6	<1.00e-02	<7.05e+02	<8.87e+02	6.96e+03	2.59	99.40	198.0	n/a
S961002648		F Copper - ICP-Fusion	uW/g	102.4	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	99.30	198.0	n/a
S961002648		F Iron - ICP-Fusion	uW/g	100.8	<5.00e-02	3.95e+03	2.95e+03	3.45e+03	29.0	99.00	988.0	n/a
S961002648		F Potassium - ICP-Fusion	uW/g	100.0	<5.00e-01	7.56e+06	n/a	n/a	n/a	n/a	9.88e+03	n/a
S961002648		F Lanthanum - ICP-Fusion	uW/g	99.60	<5.00e-02	<9.88e+02	<1.01e3	n/a	n/a	98.00	988.0	n/a
S961002648		F Lanthanum - ICP-Fusion	uW/g	99.20	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	95.60	198.0	n/a
S961002648		F Magnesium - ICP-Fusion	uW/g	97.40	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	94.90	1.98e+03	n/a
S961002648		F Manganese - ICP-Fusion	uW/g	98.60	<1.00e-02	5.79e+02	562.0	570.5	2.98	94.40	198.0	n/a
S961002648		F Molybdenum - ICP-Fusion	uW/g	100.6	<5.00e-02	<9.88e+02	<1.01e3	n/a	n/a	99.50	988.0	n/a
S961002648		F Sodium - ICP-Fusion	uW/g	99.00	2.240	2.31e+05	2.31e+05	2.31e+05	0.00	105.3	1.98e+03	n/a
S961002648		F Neodymium - ICP-Fusion	uW/g	100.8	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	99.00	1.98e+03	n/a
S961002648		F Nickel - ICP-Fusion	uW/g	100.4	2.65e-01	1.43e+03	1.43e+03	1.23e+03	40.8	99.00	395.0	n/a
S961002648		F Phosphorus - ICP-Fusion	uW/g	100.0	<1.00e-01	1.98e+04	1.74e+04	1.85e+04	11.9	101.0	3.95e+03	n/a
S961002648		F Lead - ICP-Fusion	uW/g	99.80	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	100.2	1.98e+03	n/a
S961002648		F Sulfur - ICP-Fusion	uW/g	97.60	<1.00e-01	4.68e+03	4.12e+03	4.65e+03	1.29	98.50	1.98e+03	n/a
S961002648		F Antimony - ICP-Fusion	uW/g	97.20	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	94.40	1.98e+03	n/a
S961002648		F Selenium - ICP-Fusion	uW/g	97.60	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	100.2	1.98e+03	n/a
S961002648		F Silicon - ICP-Fusion	uW/g	97.40	<1.00e-02	6.74e+03	6.74e+03	7.74e+03	25.7	98.70	988.0	n/a
S961002648		F Samarium - ICP-Fusion	uW/g	97.20	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	95.10	1.98e+03	n/a
S961002648		F Strontium - ICP-Fusion	uW/g	97.00	<1.00e-01	<1.98e+02	<2.02e2	n/a	n/a	95.60	198.0	n/a
S961002648		F Tantalum - ICP-Fusion	uW/g	97.00	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	97.60	3.95e+03	n/a
S961002648		F Thallium - ICP-Fusion	uW/g	97.40	<1.00e-01	<1.98e+03	<2.02e3	n/a	n/a	89.40	9.88e+03	n/a
S961002648		F Uranium - ICP-Fusion	uW/g	97.60	<1.00e-01	<9.88e+02	<1.01e3	n/a	n/a	97.80	988.0	n/a
S961002648		F Vanadium - ICP-Fusion	uW/g	97.60	<1.00e-02	<2.15e+02	<2.02e2	n/a	n/a	99.90	198.0	n/a
S961002648		Zinc - ICP-Fusion	uW/g	101.2	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	96.60	198.0	n/a
S961002648		F Zirconium - ICP-Fusion	uW/g	99.10	<1.00e-02	<1.98e+02	<2.02e2	n/a	n/a	96.60	198.0	n/a

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Rec %	Det Limit	Count Err%
S96T002648	F	Cobalt(-60 by GEA	uCi/g	104.6	<2.15e-01	<2.47e-01	<2.59e-01	N/A	N/A	N/A	2.48e-01	N/A
S96T002648	F	Cesium-137 by GEA	uCi/g	101.9	<2.81e-01	1.15e+02	111.0	113.0	3.54	N/A	N/A	1.49
S96T002648	F	Europium-154 by GEA	uCi/g	N/A	<7.49e-01	<8.65e-01	<8.38e-01	N/A	N/A	N/A	8.65e-01	N/A
S96T002648	F	Europium-155 by GEA	uCi/g	N/A	<5.01e-01	<5.66e-01	<5.51e-01	N/A	N/A	N/A	8.66e-01	N/A
S96T002648	F	Americium-241 by GEA	uCi/g	N/A	<3.01e-01	<5.83e-02	<6.24e-02	N/A	N/A	N/A	5.83e-02	N/A
S96T002648	F	Alpha of Digested Solid	uCi/g	105.5	N/A	6.24e-01	6.44e-01	6.34e-01	3.15	89.69	1.80e-02	1.03e+01
S96T002650	A	Silver - ICP-Acid Digest	uCi/g	84.50	<1.00e-02	<9.87e-02	<9.65e-02	N/A	N/A	N/A	87.60	N/A
S96T002650	A	Aluminum - ICP-Acid Digest	uCi/g	89.80	<1.31e-01	1.41e+04	1.72e+04	1.56e+04	19.8	542.9	49.30	N/A
S96T002650	A	Arsenic - ICP-Acid Digest	uCi/g	89.60	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	98.70	N/A
S96T002650	A	Boron - ICP-Acid Digest	uCi/g	99.20	<4.51e-01	<49.30	<120.0	N/A	N/A	N/A	103.4	N/A
S96T002650	A	Barium - ICP-Acid Digest	uCi/g	85.00	<5.00e-02	<49.30	<4.82e-01	N/A	N/A	N/A	90.60	N/A
S96T002650	A	Beryllium - ICP-Acid Digest	uCi/g	98.00	<5.00e-03	<49.30	<4.82e-01	N/A	N/A	N/A	93.20	N/A
S96T002650	A	Bismuth - ICP-Acid Digest	uCi/g	85.80	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	93.40	N/A
S96T002650	A	Cadmium - ICP-Acid Digest	uCi/g	93.60	<3.40e-01	4.60e+02	390.0	425.0	16.5	86.96	98.70	N/A
S96T002650	A	Cesium - ICP-Acid Digest	uCi/g	88.80	<5.00e-03	<11.70	<10.70	11.20	8.93	N/A	90.00	N/A
S96T002650	A	Cerium - ICP-Acid Digest	uCi/g	89.60	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	97.80	N/A
S96T002650	A	Cobalt(-60 by GEA	uCi/g	91.60	<2.00e-02	<19.70	<1.93e-01	N/A	N/A	N/A	92.60	N/A
S96T002650	A	Chromium - ICP-Acid Digest	uCi/g	90.40	<1.30e-02	5.86e+03	5.57e+03	5.72e+03	5.07	118.6	9.870	N/A
S96T002650	A	Copper - ICP-Acid Digest	uCi/g	82.60	6.80e-02	2.140	15.00	18.20	35.2	85.64	9.870	N/A
S96T002650	A	Potassium - ICP-Acid Digest	uCi/g	104.2	9.00e-02	2.83e+03	1.81e+03	2.32e+03	44.0	23.00	49.30	N/A
S96T002650	A	Lanthanum - ICP-Acid Digest	uCi/g	88.40	<5.00e-02	1.30e+03	1.17e+03	1.24e+03	10.5	86.56	49.30	N/A
S96T002650	A	Lithium - ICP-Acid Digest	uCi/g	85.00	<1.00e-02	<49.30	<4.82e-01	N/A	N/A	N/A	93.80	N/A
S96T002650	A	Magnesium - ICP-Acid Digest	uCi/g	88.00	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	89.00	N/A
S96T002650	A	Manganese - ICP-Acid Digest	uCi/g	90.20	<1.00e-02	5.09e+02	449.0	479.0	12.5	89.82	9.870	N/A
S96T002650	A	Molybdenum - ICP-Acid Digest	uCi/g	87.80	<5.00e-02	<49.30	<4.82e-01	N/A	N/A	N/A	91.80	N/A
S96T002650	A	Sodium - ICP-Acid Digest	uCi/g	104.4	7.60e-01	1.64e+05	1.60e+05	1.62e+05	2.47	379.5	98.70	N/A
S96T002650	A	Neodymium - ICP-Acid Digest	uCi/g	88.00	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	101.6	N/A
S96T002650	A	Nickel - ICP-Acid Digest	uCi/g	91.60	<2.00e-02	1.04e+02	101.0	102.5	2.93	93.42	19.70	N/A
S96T002650	A	Phosphorus - ICP-Acid Digest	uCi/g	97.00	<2.00e-02	1.55e+04	1.58e+04	1.56e+04	1.92	46.56	197.0	N/A
S96T002650	A	Lead - ICP-Acid Digest	uCi/g	88.20	<1.00e-01	2.58e+02	194.0	226.0	28.3	86.24	98.70	N/A
S96T002650	A	Sulfur - ICP-Acid Digest	uCi/g	92.20	<1.00e-01	4.22e+03	4.01e+03	4.12e+03	5.10	76.60	98.70	N/A
S96T002650	A	Antimony - ICP-Acid Digest	uCi/g	87.00	<6.00e-02	<59.20	<5.79e-01	N/A	N/A	N/A	92.00	N/A
S96T002650	A	Selenium - ICP-Acid Digest	uCi/g	87.00	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	93.80	N/A
S96T002650	A	Silicon - ICP-Acid Digest	uCi/g	143.4	9.60e-01	2.39e+02	193.0	216.0	21.3	93.20	49.30	N/A
S96T002650	A	Smearium - ICP-Acid Digest	uCi/g	84.80	<1.00e-01	<98.70	<9.65e-01	N/A	N/A	N/A	90.40	N/A
S96T002650	A	Strontium - ICP-Acid Digest	uCi/g	86.20	<1.00e-02	<9.870	<9.65e-01	N/A	N/A	N/A	90.60	N/A
S96T002650	A	Titanium - ICP-Acid Digest	uCi/g	80.80	<1.00e-02	<9.870	<9.65e-01	N/A	N/A	N/A	83.80	N/A
S96T002650	A	Thallium - ICP-Acid Digest	uCi/g	84.60	<2.00e-01	1.97e+02	<1.93e-01	N/A	N/A	N/A	87.00	N/A
S96T002650	A	Uranium - ICP-Acid Digest	uCi/g	79.00	<5.00e-01	5.77e+02	4.82e+02	N/A	N/A	N/A	78.75	N/A
S96T002650	A	Vanadium - ICP-Acid Digest	uCi/g	88.00	<5.00e-02	<49.30	<4.82e-01	N/A	N/A	N/A	89.60	N/A
S96T002650	A	Zinc - ICP-Acid Digest	uCi/g	89.00	7.00e-02	1.35e+02	29.60	82.30	128	81.36	9.870	N/A
S96T002650	A	Zirconium - ICP-Acid Digest	uCi/g	92.60	<1.00e-02	28.50	21.40	24.95	28.5	30.92	9.870	N/A
S96T002652	U	Fluoride - IC-Dioxex 40001/4500	uCi/g	105.6	<1.30e-02	9.42e+02	882.0	912.2	6.58	99.15	125.5	N/A
S96T002652	U	Chloride - IC-Dioxex 40001/4500	uCi/g	103.8	<1.07e-02	2.96e+03	2.74e+03	2.85e+03	7.72	98.35	104.1	N/A
S96T002652	U	Nitrate - IC - Dioxex 40001/4500	uCi/g	104.8	<1.07e-01	3.43e+04	3.39e+04	3.41e+04	1.17	106.1	1.03e+03	N/A
S96T002652	U	Bromide by Ion Chromatograph	uCi/g	103.2	<1.22e+03	<1.22e+03	<1.22e+03	N/A	N/A	N/A	99.66	22e+03
S96T002652	U	Nitrate by IC-Dioxex40001/4500	uCi/g	102.7	<1.40e-01	1.99e+05	2.35e+05	2.17e+05	16.6	115.3	35e+03	N/A
S96T002652	U	Phosphate by IC-Dioxex 40001/4500	uCi/g	99.63	<1.19e-01	4.97e+04	4.92e+04	4.92e+04	2.03	107.5	1.5e+03	N/A
S96T002652	U	Sulfate by IC-Dioxex40001/4500	uCi/g	101.9	<1.36e-01	1.36e+04	1.27e+04	1.32e+04	6.84	98.10	31e+03	N/A

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A-0002-3

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002549	W	Oxalate by IC - Dionex 40001	ug/g	106.9	< 1.0E-01	9.21E+03	9.49E+03	9.35E+03	2.99	104.7	1.07E+03	N/A
Drainable Liquid; Drainable Liquid												
Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002549	D	DSC Exotherm using Mettler	Joules/g	110.4	N/A	1.12E+02	146.6	129.1	27.2	N/A	N/A	N/A
S961002549	D	DSC Exotherm DRY Calculated	Joules/g DRY	110.4	N/A	2.09E+02	272.8	240.2	27.2	N/A	N/A	N/A
S961002549	D	Specific Gravity	Sp-G	97.14	N/A	1.363	1.341	1.352	1.63	N/A	1.00E-03	N/A
S961002549	D	% Water by TGA using Mettler	%	98.38	N/A	52.29	40.23	46.26	26.1	N/A	N/A	N/A
S961002549	D	Silver-ICP-Acid Dil.	ug/mL	99.60	< 1.00E-02	16.80	16.50	16.65	1.80	95.10	4.010	N/A
S961002549	D	Aluminum-ICP-Acid Dil.	ug/mL	97.80	< 1.00E-01	4.70E+04	1.76E+04	1.73E+04	3.47	147.1	20.10	N/A
S961002549	D	Arsenic-ICP-Acid Dil.	ug/mL	102.8	< 1.00E-02	70.90	44.01E1	76.10	3.15	98.90	20.10	N/A
S961002549	D	Boron-ICP-Acid Dil.	ug/mL	99.60	< 1.00E-02	20.10	22.01E1	77.30	N/A	99.00	20.10	N/A
S961002549	D	Beryllium-ICP-Acid Dil.	ug/mL	102.8	< 1.00E-03	2.200	22.00E1	N/A	N/A	102.3	2.000	N/A
S961002549	D	Barium-ICP-Acid Dil.	ug/mL	101.0	< 1.00E-01	4.40	44.01E1	N/A	N/A	100.8	40.10	N/A
S961002549	D	Calcium-ICP-Acid Dil.	ug/mL	102.8	< 1.00E-01	2.33E+02	242.0	237.5	3.79	104.5	40.10	N/A
S961002549	D	Cadmium-ICP-Acid Dil.	ug/mL	102.8	< 1.00E-03	5.770	5.190	5.480	10.6	98.39	2.000	N/A
S961002549	D	Cobalt-ICP-Acid Dil.	ug/mL	102.6	< 1.00E-01	4.40	44.01E1	N/A	N/A	103.5	40.10	N/A
S961002549	D	Copper-ICP-Acid Dil.	ug/mL	102.0	< 1.00E-02	8.020	8.02E0	N/A	N/A	98.60	8.020	N/A
S961002549	D	Chromium-ICP-Acid Dil.	ug/mL	103.4	< 1.00E-02	2.54E+02	262.0	258.0	3.10	101.4	4.010	N/A
S961002549	D	Iron-ICP-Acid Dil.	ug/mL	101.6	< 1.00E-02	4.950	4.950	4.755	8.20	102.3	4.010	N/A
S961002549	D	Potassium-ICP-Acid Dil.	ug/mL	95.00	< 1.00E-01	3.62E+03	3.76E+03	3.69E+03	3.79	102.6	20.10	N/A
S961002549	D	Lanthanum-ICP-Acid Dil.	ug/mL	100.8	< 1.00E-02	20.10	22.01E1	N/A	N/A	102.9	20.10	N/A
S961002549	D	Lithium-ICP-Acid Dil.	ug/mL	99.80	< 1.00E-02	4.40	44.01E1	N/A	N/A	102.9	20.10	N/A
S961002549	D	Magnesium-ICP-Acid Dil.	ug/mL	97.60	< 1.00E-01	4.010	44.01E1	N/A	N/A	99.30	4.010	N/A
S961002549	D	Manganese-ICP-Acid Dil.	ug/mL	98.60	< 1.00E-02	40.10	44.01E1	N/A	N/A	96.30	4.010	N/A
S961002549	D	Molybdenum-ICP-Acid Dil.	ug/mL	101.4	< 1.00E-02	20.60	22.01E1	91.40	2.60	101.4	20.10	N/A
S961002549	D	Sodium-ICP-Acid Dil.	ug/mL	100.4	< 1.00E-01	2.22E+02	2.36E+02	2.36E+02	2.97	864.9	40.10	N/A
S961002549	D	Niodymium-ICP-Acid Dil.	ug/mL	102.4	< 1.00E-02	1.22E+02	1.22E+02	1.28E+02	2.43	99.00	8.020	N/A
S961002549	D	Nickel-ICP-Acid Dil.	ug/mL	101.6	< 1.00E-02	1.54E+03	1.78E+03	1.65E+03	14.5	110.5	80.20	N/A
S961002549	D	Phosphorus-ICP-Acid Dil.	ug/mL	101.0	< 1.00E-01	44.01	44.01E1	N/A	N/A	104.0	40.10	N/A
S961002549	D	Lead-ICP-Acid Dil.	ug/mL	99.20	< 1.00E-01	2.98E+03	3.07E+03	3.02E+03	2.98	105.7	40.10	N/A
S961002549	D	Sulfur-ICP-Acid Dil.	ug/mL	97.00	< 1.00E-02	24.10	22.01E1	N/A	N/A	96.60	24.10	N/A
S961002549	D	Antimony-ICP-Acid Dil.	ug/mL	99.60	< 1.00E-01	40.10	40.10	N/A	N/A	114.0	40.10	N/A
S961002549	D	Selenium-ICP-Acid Dil.	ug/mL	98.40	< 1.00E-02	91.30	96.90	94.10	5.95	102.9	20.10	N/A
S961002549	D	Silicon-ICP-Acid Dil.	ug/mL	98.20	< 1.00E-01	4.40	44.01E1	N/A	N/A	97.50	40.10	N/A
S961002549	D	Samarium-ICP-Acid Dil.	ug/mL	99.60	< 1.00E-02	4.40	44.01E1	N/A	N/A	99.50	4.010	N/A
S961002549	D	Strontium-ICP-Acid Dil.	ug/mL	97.80	< 1.00E-02	4.40	44.01E1	N/A	N/A	97.80	4.010	N/A
S961002549	D	Tantalum-ICP-Acid Dil.	ug/mL	95.80	< 1.00E-01	80.20	88.02E1	N/A	N/A	90.00	80.20	N/A
S961002549	D	Thallium-ICP-Acid Dil.	ug/mL	96.80	< 1.00E-02	22.00E2	22.00E2	N/A	N/A	101.2	200.0	N/A
S961002549	D	Vanadium-ICP-Acid Dil.	ug/mL	101.4	< 1.00E-02	20.10	22.01E1	N/A	N/A	99.60	20.10	N/A
S961002549	D	Zinc-ICP-Acid Dil.	ug/mL	100.8	< 1.00E-02	23.40	24.50	23.95	4.59	100.4	4.010	N/A
S961002549	D	Zirconium-ICP-Acid Dil.	ug/mL	99.20	< 1.00E-02	4.40	44.01E1	N/A	N/A	99.50	4.010	N/A
S961002549	D	Fluoride-ICP-Dionex 40001/4500	ug/mL	110.7	< 1.00E-02	1.33E+02	1.33E2	N/A	N/A	N/A	132.6	N/A
S961002549	D	Chloride-ICP-Dionex 40001/4500	ug/mL	104.8	< 1.00E-02	8.84E+03	8.91E+03	8.88E+03	0.79	N/A	173.4	N/A
S961002549	D	Nitrite-IC - Dionex 40001/4500	ug/mL	101.7	< 1.00E-01	1.05E+05	1.06E+05	1.05E+05	0.00	N/A	1.09E+03	N/A
S961002549	D	Bromide by Ion Chromatograph	ug/mL	102.3	< 1.26E-01	< 1.28E+03	< 1.29E+3	N/A	N/A	N/A	1.28E+03	N/A

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002549		Nitrate-IC - Dionex 40001/4500	ug/ml	104.6	<1.40e-01	2.32e+05	2.48e+05	2.50e+05	1.40	N/A	1.43e+03	N/A
S961002549		Phosphate-IC-Dionex 40001/4500	ug/ml	102.9	<1.19e-01	3.62e+03	4.08e+03	3.85e+03	11.9	N/A	1.21e+03	N/A
S961002549		Sulfate by IC-Dionex40001/4500	ug/ml	104.8	<1.36e-01	6.70e+03	6.61e+03	6.66e+03	1.35	N/A	1.39e+03	N/A
S961002549		Oxalate by IC - Dionex 40001	ug/ml	105.9	<1.05e-01	<1.07e+03	<1.07e+03	N/A	N/A	N/A	1.07e+03	N/A
S961002549		Alpha in Liquid Samples	uCi/ml	112.5	<7.43e-03	2.93e-02	4.24e-02	3.58e-02	36.5	128.1	1.70e-02	6.51E-01
S961003622		OH- by Pot. Titration	ug/ml	105.2	<2500.0	2.35e+04	2.44e+04	2.40e+04	3.76	N/A	2.50e+03	N/A
S961003622		pH Direct	pH	100.0	N/A	13.01	13.09	13.05	0.61	N/A	1.00e-02	N/A
S961003622		Tot. Inorg. Carbon by Coul.	ug/ml	99.17	3.00e-01	8.77e+03	8.81e+03	8.79e+03	0.46	101.0	105.0	N/A
S961003622		Tot. Organic Carbon by Coul.	ug/ml	97.00	7.00e-01	1.77e+04	1.79e+04	1.78e+04	1.12	118.0	105.0	N/A
S961003622		Strontium-89/90 High Level	uCi/ml	96.72	1.10e-02	8.390	8.460	8.425	0.83	N/A	1.40e-02	2.25E+00
S961003622		Pu-239/240 by TRU-SPEC Resin	uCi/ml	97.90	<3.00e-04	7.88e-04	8.78e-04	8.33e-04	10.8	N/A	3.24e-04	4.05E+00
S961003622		Cobalt-60 by GEA	uCi/ml	103.1	<4.80e-03	3.38e-02	2.55e-02	2.96e-02	28.0	N/A	N/A	25.4
S961003622		Cesium-137 by GEA	uCi/ml	97.56	<1.33e-02	3.08e+02	306.0	307.0	0.65	N/A	N/A	0.180
S961003622		Am-241 by Extraction	uCi/ml	103.9	<3.24e-04	1.69e-02	1.76e-02	1.73e-02	4.96	N/A	1.00e-03	1.80E+00

Table 1. Data Summary Report
U-102

CORE NUMBER: 144
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002654		Bulk Density of Sample	g/mL	N/A	N/A	1.670	N/A	N/A	N/A	N/A	5,000-01	N/A
S96T002654		DSC Exotherm using Mettler	Joules/g	97.72	N/A	54.00	47.0	50.23	13.6	N/A	N/A	N/A
S96T002646		DSC Exotherm DRY Calculated	Joules/g DRY	N/A	N/A	53.60	2.80	27.61	184	N/A	N/A	N/A
S96T002646	1	DSC Exotherm DRY Calculated	Joules/g DRY	N/A	N/A	81.04	70.70	75.87	31.7	N/A	N/A	N/A
S96T002646		DSC Exotherm on Perkin Elmer	Joules/g	92.97	N/A	39.40	1.620	20.51	1.86	N/A	N/A	N/A
S96T002646		% Water by TGA using Mettler	%	98.53	N/A	33.09	33.49	33.39	1.86	N/A	N/A	N/A
S96T002646		% Water by TGA using Perkin Elmer	%	99.32	N/A	12.57	12.57	25.72	N/A	N/A	N/A	N/A
S96T002646		TIC by Acid/Coulometry	ug/g	100.2	1.400	1.28e04	1.33e04	1.30e04	3.93	N/A	N/A	N/A
S96T002654		TOC by Persulfate/Coulometry	ug/g	99.00	3.500	7.19e03	7.19e03	7.15e03	1.12	N/A	5,000	N/A
S96T002654		F Silver - ICP-Fusion	ug/g	99.40	<1.00e-01	1.89e03	<1.84e3	N/A	1.12	89.30	169.0	N/A
S96T002654		F Aluminum - ICP-Fusion	ug/g	97.20	<5.00e-02	1.26e04	1.29e04	1.24e04	0.90	94.40	947.0	N/A
S96T002654		F Arsenic - ICP-Fusion	ug/g	102.8	<1.00e-01	<1.89e03	<1.84e3	N/A	100.2	95.60	1,890-03	N/A
S96T002654		F Boron - ICP-Fusion	ug/g	99.80	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	93.70	947.0	N/A
S96T002654		F Barium - ICP-Fusion	ug/g	99.80	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	93.70	947.0	N/A
S96T002654		F Beryllium - ICP-Fusion	ug/g	102.4	<5.00e-03	<94.70	<9.20e2	N/A	N/A	97.30	1,890-03	N/A
S96T002654		F Bismuth - ICP-Fusion	ug/g	100.6	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	100.0	1,890-03	N/A
S96T002654		F Calcium - ICP-Fusion	ug/g	101.6	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	98.00	947.0	N/A
S96T002654		F Cadmium - ICP-Fusion	ug/g	100.4	<5.00e-03	<94.70	<9.20e2	N/A	N/A	99.30	1,890-03	N/A
S96T002654		F Cerium - ICP-Fusion	ug/g	101.8	<5.00e-01	<1.89e03	<1.84e3	N/A	N/A	98.00	1,890-03	N/A
S96T002654		F Cobalt - ICP-Fusion	ug/g	100.4	<5.00e-02	<3.79e02	<3.68e2	N/A	N/A	98.00	1,890-03	N/A
S96T002654		F Chromium - ICP-Fusion	ug/g	101.6	<1.00e-02	<2.79e03	<2.86e03	2.82e03	2.48	98.90	189.0	N/A
S96T002654		F Copper - ICP-Fusion	ug/g	102.4	<1.00e-02	<1.89e02	<1.84e2	N/A	N/A	98.00	947.0	N/A
S96T002654		F Iron - ICP-Fusion	ug/g	100.8	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	99.00	947.0	N/A
S96T002654		F Potassium - ICP-Fusion	ug/g	100.0	<5.00e-01	<7.29e06	N/A	N/A	N/A	N/A	9.47e+03	N/A
S96T002654		F Lanthanum - ICP-Fusion	ug/g	99.60	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	95.80	947.0	N/A
S96T002654		F Lithium - ICP-Fusion	ug/g	99.20	<1.00e-02	<1.89e02	<1.84e2	N/A	N/A	95.10	189.0	N/A
S96T002654		F Magnesium - ICP-Fusion	ug/g	99.40	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	95.10	1,890-03	N/A
S96T002654		F Manganese - ICP-Fusion	ug/g	98.60	<1.00e-02	<1.89e02	<1.84e2	N/A	N/A	94.40	189.0	N/A
S96T002654		F Molybdenum - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	92.80	947.0	N/A
S96T002654		F Sodium - ICP-Fusion	ug/g	99.00	2.240	2.54e05	2.51e05	2.52e05	1.19	78.20	1,890-03	N/A
S96T002654		F Neodymium - ICP-Fusion	ug/g	100.8	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	97.80	1,890-03	N/A
S96T002654		F Nickel - ICP-Fusion	ug/g	100.4	2.65e-01	8.42e03	1.05e03	2.74e03	123	98.40	379.0	N/A
S96T002654		F Phosphorus - ICP-Fusion	ug/g	104.0	<2.00e-01	8.36e03	7.97e03	8.16e03	4.78	100.7	3,790-03	N/A
S96T002654		F Lead - ICP-Fusion	ug/g	100.0	<1.00e-01	6.81e03	6.59e03	6.70e03	3.28	98.00	1,890-03	N/A
S96T002654		F Selenium - ICP-Fusion	ug/g	99.80	<1.00e-02	<1.46e03	<1.10e3	N/A	N/A	94.40	1,890-03	N/A
S96T002654		F Antimony - ICP-Fusion	ug/g	97.60	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	92.00	1,890-03	N/A
S96T002654		F Strontium - ICP-Fusion	ug/g	98.40	<5.00e-02	<9.47e02	<9.20e2	N/A	N/A	99.00	947.0	N/A
S96T002654		F Tellurium - ICP-Fusion	ug/g	97.20	<1.00e-01	<1.89e03	<1.84e3	N/A	N/A	94.10	1,890-03	N/A
S96T002654		F Thallium - ICP-Fusion	ug/g	98.00	<1.00e-02	<1.89e02	<1.84e2	N/A	N/A	94.40	189.0	N/A
S96T002654		F Uranium - ICP-Fusion	ug/g	97.00	<2.00e-01	<3.79e03	<3.68e3	N/A	N/A	96.10	3,790-03	N/A
S96T002654		F Vanadium - ICP-Fusion	ug/g	94.90	<5.00e-01	<9.47e03	<9.20e3	N/A	N/A	87.20	9.47e+03	N/A

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002659	W	Phosphate-IC-Blonex 40001/4500	ug/g	99.43	< 1.0e-01	1.51e+04	2.22e+04	1.87e+04	38.1	N/A	1.16e+03	N/A
S961002659	W	Sulfate by IC-Blonex40001/4500	ug/g	101.9	< 1.3e-01	1.42e+04	1.52e+04	1.52e+04	3.2	N/A	1.32e+03	N/A
S961002659	W	Oxalate by IC - Blonex 40001	ug/g	106.9	< 1.0e-01	3.59e+03	4.27e+03	3.98e+03	14.6	N/A	1.02e+03	N/A

Lower Half of Segment: L Lower Half of Segment												
Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002652		Bulk Density of Sample	g/mL	N/A	N/A	1.810	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002633		DSC Exotherm using Mettler	Joules/g	112.5	N/A	69.20	68.10	68.65	1.60	N/A	N/A	N/A
S961002633		DSC Exotherm Dry Calculated	Joules/g Dry	N/A	N/A	1.0e+02	103.6	103.6	1.54	N/A	N/A	N/A
S961002633		% Water by TGA using Mettler	%	98.36	N/A	33.61	33.85	33.73	0.71	N/A	N/A	N/A
S961002633		% TIC by Acid/Coulometry	ug/g	98.67	1.400	7.72e+03	7.75e+03	7.74e+03	0.39	N/A	5.000	N/A
S961002633		% TIC by Persulfate/Coulometry	ug/g	88.67	2.800	5.19e+03	5.19e+03	5.18e+03	6.12	N/A	40.00	N/A
S961002649	F	Silver - ICP-Fusion	ug/g	99.40	< 1.00e-02	2.00e+02	1.94e+02	1.94e+02	N/A	90.70	200.0	N/A
S961002649	F	Aluminum - ICP-Fusion	ug/g	97.20	< 5.00e-02	1.05e+04	1.04e+04	1.04e+04	N/A	95.90	999.0	N/A
S961002649	F	Arsenic - ICP-Fusion	ug/g	102.8	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	102.9	2.00e+03	N/A
S961002649	F	Boron - ICP-Fusion	ug/g	99.80	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	95.40	999.0	N/A
S961002649	F	Barium - ICP-Fusion	ug/g	98.40	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	94.40	999.0	N/A
S961002649	F	Beryllium - ICP-Fusion	ug/g	102.4	< 5.00e-03	2.00e+03	2.00e+03	2.00e+03	N/A	98.80	99.90	N/A
S961002649	F	Bismuth - ICP-Fusion	ug/g	100.6	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	96.40	2.00e+03	N/A
S961002649	F	Calcium - ICP-Fusion	ug/g	101.6	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	100.7	2.00e+03	N/A
S961002649	F	Cadmium - ICP-Fusion	ug/g	100.4	< 5.00e-03	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	99.90	N/A
S961002649	F	Cerium - ICP-Fusion	ug/g	101.8	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	399.0	N/A
S961002649	F	Cobalt - ICP-Fusion	ug/g	100.4	< 2.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	200.0	N/A
S961002649	F	Chromium - ICP-Fusion	ug/g	101.6	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	200.0	N/A
S961002649	F	Copper - ICP-Fusion	ug/g	102.4	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	100.2	999.0	N/A
S961002649	F	Iron - ICP-Fusion	ug/g	100.8	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	97.60	999.0	N/A
S961002649	F	Potassium - ICP-Fusion	ug/g	99.60	< 5.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	95.60	200.0	N/A
S961002649	F	Lanthanum - ICP-Fusion	ug/g	99.20	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	94.90	2.00e+03	N/A
S961002649	F	Lithium - ICP-Fusion	ug/g	97.40	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	95.40	200.0	N/A
S961002649	F	Magnesium - ICP-Fusion	ug/g	98.60	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	999.0	N/A
S961002649	F	Manganese - ICP-Fusion	ug/g	100.6	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	99.00	999.0	N/A
S961002649	F	Molybdenum - ICP-Fusion	ug/g	99.00	< 2.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	121.8	2.00e+03	N/A
S961002649	F	Niobium - ICP-Fusion	ug/g	99.00	< 2.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	98.80	2.00e+03	N/A
S961002649	F	Sodium - ICP-Fusion	ug/g	100.8	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	98.30	399.0	N/A
S961002649	F	Neodymium - ICP-Fusion	ug/g	100.4	< 2.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	100.1	3.99e+03	N/A
S961002649	F	Nickel - ICP-Fusion	ug/g	100.4	< 2.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	99.50	2.00e+03	N/A
S961002649	F	Phosphorus - ICP-Fusion	ug/g	100.0	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	100.3	2.00e+03	N/A
S961002649	F	Lead - ICP-Fusion	ug/g	99.80	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	95.90	1.20e+03	N/A
S961002649	F	Sulfur - ICP-Fusion	ug/g	95.40	< 4.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	98.30	2.00e+03	N/A
S961002649	F	Antimony - ICP-Fusion	ug/g	97.60	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	100.0	999.0	N/A
S961002649	F	Selenium - ICP-Fusion	ug/g	98.40	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	94.90	2.00e+03	N/A
S961002649	F	Silicon - ICP-Fusion	ug/g	97.20	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	95.60	200.0	N/A
S961002649	F	Samarium - ICP-Fusion	ug/g	98.00	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	95.40	200.0	N/A
S961002649	F	Strontium - ICP-Fusion	ug/g	97.00	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	93.90	3.99e+03	N/A
S961002649	F	Titanium - ICP-Fusion	ug/g	97.40	< 1.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	86.85	9.99e+03	N/A
S961002649	F	Thallium - ICP-Fusion	ug/g	94.90	< 5.00e-01	2.00e+03	2.00e+03	2.00e+03	N/A	97.80	999.0	N/A
S961002649	F	Uranium - ICP-Fusion	ug/g	99.80	< 5.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	101.5	200.0	N/A
S961002649	F	Vanadium - ICP-Fusion	ug/g	101.2	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	96.30	200.0	N/A
S961002649	F	Zinc - ICP-Fusion	ug/g	98.00	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	N/A	N/A	N/A
S961002649	F	Zirconium - ICP-Fusion	ug/g	98.00	< 1.00e-02	2.00e+03	2.00e+03	2.00e+03	N/A	N/A	N/A	N/A

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
3951002649	F	Cobalt-60 by GEA	UC/L	104.6	< 2.31e-01	< 1.85e-01	< 2.10e-1	118.4	N/A	N/A	1.85e-01	N/A
3951002649	F	Cesium-137 by GEA	UC/L	101.9	< 2.81e-01	< 1.20e-02	< 1.13e-01	116.4	N/A	N/A	8.04e-01	N/A
3951002649	F	Europium-154 by GEA	UC/L	N/A	< 5.79e-01	< 3.04e-01	< 7.94e-1	N/A	N/A	N/A	8.04e-01	N/A
3951002649	F	Europium-155 by GEA	UC/L	N/A	< 5.79e-01	< 3.04e-01	< 7.94e-1	N/A	N/A	N/A	8.04e-01	N/A
3951002649	F	Americium-241 by GEA	UC/L	111.7	< 3.01e-01	< 1.50e-01	< 4.46e-1	N/A	N/A	N/A	4.38e-01	N/A
3951002649	F	Alpha of Digested Solid	UC/L	N/A	N/A	N/A	N/A	1.61e-01	3.12	87.19	8.00e-03	1.29E+01
3951002651	A	Silver-109-Acid Digest	UG/g	84.30	< 1.00e-02	< 9.60e-03	< 9.26e-03	N/A	N/A	N/A	2.600	N/A
3951002651	A	Aluminum-109-Acid Digest	UG/g	89.80	< 1.31e-01	< 9.43e-03	< 9.11e-03	9.27e+03	3.45	151.2	48.00	N/A
3951002651	A	Arsenic-109-Acid Digest	UG/g	89.60	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Boron-109-Acid Digest	UG/g	99.20	< 4.51e-01	< 55.70	< 63.60	59.65	13.2	96.80	48.00	N/A
3951002651	A	Barium-109-Acid Digest	UG/g	85.60	< 5.00e-02	< 4.800	< 4.63e-01	N/A	N/A	N/A	48.00	N/A
3951002651	A	Beryllium-109-Acid Digest	UG/g	96.00	< 5.00e-02	< 4.800	< 4.63e-01	N/A	N/A	N/A	48.00	N/A
3951002651	A	Bismuth-109-Acid Digest	UG/g	85.80	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Calcium-109-Acid Digest	UG/g	85.80	< 3.40e-01	< 2.70e+02	< 237.0	253.3	13.0	94.28	96.00	N/A
3951002651	A	Cadmium-109-Acid Digest	UG/g	88.80	< 5.00e-03	< 3.050	< 6.240	5.645	21.1	89.88	4.800	N/A
3951002651	A	Cerium-109-Acid Digest	UG/g	89.80	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Cobalt-109-Acid Digest	UG/g	91.60	< 1.30e-02	< 1.19e+03	< 1.18e-01	2.04e+03	N/A	N/A	96.00	N/A
3951002651	A	Chromium-109-Acid Digest	UG/g	82.60	< 6.00e-02	< 9.740	< 12.30	11.02	23.2	87.78	7.600	N/A
3951002651	A	Copper-109-Acid Digest	UG/g	94.40	< 9.00e-02	< 3.38e+02	< 346.0	339.5	3.63	90.48	48.00	N/A
3951002651	A	Potassium-109-Acid Digest	UG/g	106.2	< 5.60e-01	< 1.38e+03	< 1.26e+03	1.32e+03	9.09	96.06	480.0	N/A
3951002651	A	Lanthanum-109-Acid Digest	UG/g	88.40	< 5.00e-02	< 48.00	< 4.63e-01	N/A	N/A	N/A	48.00	N/A
3951002651	A	Lithium-109-Acid Digest	UG/g	85.00	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Magnesium-109-Acid Digest	UG/g	88.00	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Manganese-109-Acid Digest	UG/g	90.20	< 1.00e-02	< 1.19e+02	< 4.63e-01	115.0	6.96	91.92	4.800	N/A
3951002651	A	Niobium-109-Acid Digest	UG/g	81.80	< 5.00e-02	< 48.00	< 4.63e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Sodium-109-Acid Digest	UG/g	104.4	< 1.60e-01	< 1.81e+03	< 1.71e+03	1.86e+03	5.38	2.11e+03	96.00	N/A
3951002651	A	Neodymium-109-Acid Digest	UG/g	88.00	< 1.00e-01	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Nickel-109-Acid Digest	UG/g	91.60	< 2.00e-01	< 75.30	< 74.40	74.40	7.96	93.14	96.00	N/A
3951002651	A	Phosphorus-109-Acid Digest	UG/g	84.20	< 2.00e-01	< 4.20e+03	< 3.63e+03	3.92e+03	14.5	96.28	192.0	N/A
3951002651	A	Lead-109-Acid Digest	UG/g	95.20	< 1.00e-01	< 96.00	< 3.42e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Lead-109-Acid Digest	UG/g	95.20	< 1.00e-01	< 96.00	< 3.42e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Antimony-109-Acid Digest	UG/g	87.00	< 6.00e-02	< 97.60	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Selenium-109-Acid Digest	UG/g	87.00	< 6.00e-02	< 97.60	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Silicon-109-Acid Digest	UG/g	113.0	< 9.00e-01	< 1.21e+02	< 97.60	123.5	4.05	114.2	96.00	N/A
3951002651	A	Samarium-109-Acid Digest	UG/g	84.80	< 1.00e-02	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Strontium-109-Acid Digest	UG/g	84.20	< 1.00e-02	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Tantalum-109-Acid Digest	UG/g	80.80	< 1.00e-02	< 96.00	< 9.26e-01	N/A	N/A	N/A	96.00	N/A
3951002651	A	Thallium-109-Acid Digest	UG/g	84.40	< 2.00e-01	< 1.93e+02	< 1.88e+02	N/A	N/A	N/A	192.0	N/A
3951002651	A	Thallium-109-Acid Digest	UG/g	79.00	< 5.00e-02	< 4.80e+02	< 4.24e+02	N/A	N/A	N/A	480.0	N/A
3951002651	A	Uranium-109-Acid Digest	UG/g	88.00	< 5.00e-02	< 48.00	< 4.63e-01	N/A	N/A	N/A	48.00	N/A
3951002651	A	Vanadium-109-Acid Digest	UG/g	89.00	< 7.00e-03	< 22.20	< 26.40	24.40	18.0	90.08	9.600	N/A
3951002651	A	Zinc-109-Acid Digest	UG/g	92.60	< 1.00e-03	< 9.600	< 9.26e-03	N/A	N/A	N/A	9.600	N/A
3951002651	A	Zinc-109-Acid Digest	UG/g	92.60	< 1.00e-03	< 9.600	< 9.26e-03	N/A	N/A	N/A	9.600	N/A
3951002653	W	Chloride (C-Dioxin 40001/4500)	UG/g	104.4	< 1.30e-03	< 1.89e+02	< 1.90e-03	3.44e+02	17.2	N/A	267.2	N/A
3951002653	W	Chloride (C-Dioxin 40001/4500)	UG/g	106.1	< 1.30e-03	< 3.23e+03	< 3.65e+03	3.60e+03	11.7	N/A	1.56e+03	N/A
3951002653	W	Nitrate (C-Dioxin 40001/4500)	UG/g	98.51	< 0.7e-01	< 3.98e+02	< 3.81e+02	3.88e+02	7.8	N/A	998.2	N/A
3951002653	W	Benzene by GC-Dioxin 40001/4500	UG/g	100.8	< 1.2e-01	< 9.28e+02	< 9.73e+02	3.88e+02	7.8	N/A	2.04e+03	N/A
3951002653	W	Nitrate by GC-Dioxin 40001/4500	UG/g	102.2	< 1.00e-01	< 1.03e+03	< 3.75e+02	1.52e+04	1.52	N/A	1.52e+03	N/A
3951002653	W	Phosphoric (C-Dioxin 40001/4500)	UG/g	100.0	< 1.19e-01	< 1.51e+04	< 1.20e+04	1.23e+04	5.87	N/A	1.98e+03	N/A
3951002653	W	Sulfate by GC-Dioxin 40001/4500	UG/g	104.3	< 1.36e-01	< 1.21e+04	< 1.20e+04	1.23e+04	5.87	N/A	1.98e+03	N/A

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002653	W	Oxalate by IC - Dionex 40001	ug/g	106.7	<1.0e-01	2.75e+03	2.84e+03	2.78e+03	3.95	n/a	1.55e+03	n/a

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Error
S961002655		Bulk Density of Sample	g/cc	N/A	N/A	7.10	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961002647		DSC Exotherm Using Mettler	calories/g	112.1	N/A	8.3	29.60	23.72	47.2	N/A	N/A	N/A
S961002647		DSC Exotherm Drying Calculated	calories/g DRY	N/A	N/A	20.13	32.53	26.34	47.2	N/A	N/A	N/A
S961002647		% Water by TGA Using Mettler	%	98.36	N/A	1.880	10.46	6.070	10.7	N/A	N/A	N/A
S961002647	1	% Water by TGA Using Mettler	%	106.36	N/A	11.37	10.46	10.72	12.3	N/A	N/A	N/A
S961002647		TIC by GC/MS/MS	ug/g	106.36	1	7.00e+03	6.81e+03	6.90e+03	2.63	N/A	5.000	N/A
S961002647		TIC by GC/MS/MS	ug/g	94.00	3.500	4.00e+03	3.73e+03	3.90e+03	2.51	N/A	4.000	N/A
S961002655		F Silver - ICP-Fusion	ug/g	102.4	<1.00e-02	<2.01e-02	1.85e-02	N/A	N/A	92.00	201.0	N/A
S961002655		F Aluminum - ICP-Fusion	ug/g	102.4	<1.00e-02	<6.53e-03	6.88e-03	6.68e-03	4.34	96.50	1.01e+03	N/A
S961002655		F Arsenic - ICP-Fusion	ug/g	102.4	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	95.70	1.01e+03	N/A
S961002655		F Boron - ICP-Fusion	ug/g	99.60	<1.00e-02	<1.01e+03	<9.24e-02	N/A	N/A	98.70	1.01e+03	N/A
S961002655		F Bromine - ICP-Fusion	ug/g	98.40	<1.00e-02	<1.01e+03	<9.24e-02	N/A	N/A	98.70	1.01e+03	N/A
S961002655		F Barium - ICP-Fusion	ug/g	102.4	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	99.30	1.01e+03	N/A
S961002655		F Beryllium - ICP-Fusion	ug/g	100.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	100.7	2.01e+03	N/A
S961002655		F Calcium - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Cadmium - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Cerium - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Cobalt - ICP-Fusion	ug/g	101.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Chromium - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.01e-03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Copper - ICP-Fusion	ug/g	102.4	<1.00e-02	<2.01e-03	<1.92e-03	2.40e+03	5.06	100.0	201.0	N/A
S961002655		F Iron - ICP-Fusion	ug/g	102.4	<1.00e-02	<2.01e-03	<1.92e-03	N/A	N/A	99.60	201.0	N/A
S961002655		F Lithium - ICP-Fusion	ug/g	100.0	<1.00e-02	<1.01e+03	<9.24e-02	N/A	N/A	100.7	1.01e+03	N/A
S961002655		F Potassium - ICP-Fusion	ug/g	100.0	<1.00e-01	<2.01e-03	<1.92e-03	N/A	N/A	98.70	1.01e+03	N/A
S961002655		F Lanthanum - ICP-Fusion	ug/g	99.60	<1.00e-02	<1.01e+03	<9.24e-02	N/A	N/A	98.70	1.01e+03	N/A
S961002655		F Lithium - ICP-Fusion	ug/g	99.60	<1.00e-02	<2.01e+03	<1.92e-02	N/A	N/A	98.70	201.0	N/A
S961002655		F Magnesium - ICP-Fusion	ug/g	97.40	<1.00e-01	<2.01e+03	<1.92e-03	N/A	N/A	98.40	2.01e+03	N/A
S961002655		F Manganese - ICP-Fusion	ug/g	98.60	<1.00e-02	<2.01e+03	<1.92e-02	N/A	N/A	98.40	201.0	N/A
S961002655		F Molybdenum - ICP-Fusion	ug/g	100.0	<1.00e-02	<2.01e+03	<9.24e-02	N/A	N/A	99.60	1.01e+03	N/A
S961002655		F Sodium - ICP-Fusion	ug/g	99.00	<2.01e-02	<2.01e+03	<2.78e+03	2.84e+03	4.23	112.4	2.01e+03	N/A
S961002655		F Neodymium - ICP-Fusion	ug/g	100.0	<1.00e-01	<2.01e+03	<1.92e-03	N/A	N/A	99.30	2.01e+03	N/A
S961002655		F Nickel - ICP-Fusion	ug/g	100.0	<1.00e-02	<2.01e+03	<1.92e-03	801.5	10.9	98.90	402.0	N/A
S961002655		F Phosphorus - ICP-Fusion	ug/g	104.0	<2.00e-01	<4.97e+03	<3.70e-03	N/A	N/A	103.5	4.02e+03	N/A
S961002655		F Lead - ICP-Fusion	ug/g	100.0	<1.00e-01	<2.01e+03	<1.92e-03	N/A	N/A	98.00	2.01e+03	N/A
S961002655		F Sulfur - ICP-Fusion	ug/g	99.80	<1.00e-01	<3.44e+03	<3.52e+03	3.58e+03	3.35	95.60	2.01e+03	N/A
S961002655		F Antimony - ICP-Fusion	ug/g	95.40	<1.00e-02	<2.01e+03	<1.11e-03	N/A	N/A	95.60	1.21e+03	N/A
S961002655		F Selenium - ICP-Fusion	ug/g	97.60	<1.00e-01	<2.01e+03	<1.92e-03	N/A	N/A	97.30	2.01e+03	N/A
S961002655		F Silicon - ICP-Fusion	ug/g	98.40	<1.00e-01	<2.01e+03	<9.24e-02	N/A	N/A	98.40	1.01e+03	N/A
S961002655		F Strontium - ICP-Fusion	ug/g	97.20	<1.00e-01	<2.01e+03	<1.92e-03	N/A	N/A	95.10	2.01e+03	N/A
S961002655		F Tellurium - ICP-Fusion	ug/g	98.00	<1.00e-02	<2.01e+03	<1.92e-03	N/A	N/A	98.40	201.0	N/A
S961002655		F Titanium - ICP-Fusion	ug/g	97.00	<1.00e-02	<2.01e+03	<1.92e-03	N/A	N/A	98.40	201.0	N/A
S961002655		F Vanadium - ICP-Fusion	ug/g	97.40	<2.00e-01	<4.02e+03	<3.70e-03	N/A	N/A	97.10	4.02e+03	N/A
S961002655		F Uranium - ICP-Fusion	ug/g	94.90	<1.00e-02	<1.01e+04	<9.24e-02	N/A	N/A	86.85	1.01e+03	N/A
S961002655		F Vanadium - ICP-Fusion	ug/g	99.80	<1.00e-02	<1.01e+03	<9.24e-02	N/A	N/A	97.80	1.01e+03	N/A
S961002655		F Zinc - ICP-Fusion	ug/g	101.2	<1.00e-02	<2.01e+03	<1.92e-03	N/A	N/A	100.5	201.0	N/A

Sample#	RAW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err
S961002655	F	Titanium - ICP-Emission	ug/g	98.00	< 1.00e-02	< 2.01e+02	1.85e+02	n/a	n/a	96.30	201.0	n/a
S961002655	F	Cobalt - 40 by DEA	ug/g	103.3	< 35.0e-02	< 8.71e+01	< 2.7e+01	n/a	n/a	8.70e-02	n/a	n/a
S961002655	F	Cesium - 137 by DEA	ug/g	98.78	< 3.07e-01	< 4.13e+01	< 3.02e+01	64.72	8.56	n/a	n/a	1.33
S961002655	F	Europium - 154 by DEA	ug/g	n/a	< 3.35e-01	< 3.30e+01	< 3.02e+01	n/a	n/a	n/a	3.30e-01	n/a
S961002655	F	Europium - 152 by DEA	ug/g	n/a	< 3.35e-01	< 3.30e+01	< 3.02e+01	n/a	n/a	n/a	3.30e-01	n/a
S961002655	F	Mercurium - 201 by DEA	ug/g	n/a	< 1.00e-01	< 1.97e+01	< 1.76e+01	n/a	n/a	n/a	1.87	n/a
S961002657	A	Silicon - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	< 6.22e+02	< 5.00e+02	n/a	n/a	n/a	9.270	n/a
S961002657	A	Aluminum - ICP-Acid Digest	ug/g	80.50	< 1.00e-02	< 5.23e+02	< 4.70e+02	5.78e+03	19.2	n/a	46.30	n/a
S961002657	A	Arsenic - ICP-Acid Digest	ug/g	87.20	< 5.00e-01	< 92.60	< 92.60	n/a	n/a	n/a	92.60	n/a
S961002657	A	Boron - ICP-Acid Digest	ug/g	87.20	< 5.00e-02	< 86.30	< 86.30	98.47	23.5	n/a	46.30	n/a
S961002657	A	Beryllium - ICP-Acid Digest	ug/g	86.00	< 5.00e-02	< 4.30	< 4.30	n/a	n/a	n/a	46.30	n/a
S961002657	A	Barium - ICP-Acid Digest	ug/g	85.80	< 5.00e-01	< 9.40	< 9.40	n/a	n/a	n/a	92.60	n/a
S961002657	A	Calcium - ICP-Acid Digest	ug/g	84.80	< 5.00e-01	< 2.39e+02	< 1.88e+02	213.2	23.9	n/a	46.30	n/a
S961002657	A	Cadmium - ICP-Acid Digest	ug/g	89.40	< 1.00e-01	< 9.40	< 9.40	n/a	n/a	n/a	92.60	n/a
S961002657	A	Cesium - ICP-Acid Digest	ug/g	91.40	< 2.00e-02	< 18.50	< 1.98e+01	n/a	n/a	n/a	18.50	n/a
S961002657	A	Cobalt - ICP-Acid Digest	ug/g	90.40	< 1.00e-02	< 1.66e+02	< 1.94e+02	1.80e+03	15.2	n/a	9.270	n/a
S961002657	A	Copper - ICP-Acid Digest	ug/g	82.60	< 6.00e-02	< 9.260	< 9.260	n/a	n/a	n/a	46.30	n/a
S961002657	A	Iron - ICP-Acid Digest	ug/g	94.40	< 5.00e-02	< 3.19e+02	< 3.18e+02	318.5	0.31	n/a	46.30	n/a
S961002657	A	Potassium - ICP-Acid Digest	ug/g	106.2	< 5.00e-01	< 8.07e+02	< 8.07e+02	842.5	8.33	n/a	463.0	n/a
S961002657	A	Lanthanum - ICP-Acid Digest	ug/g	88.40	< 5.00e-02	< 46.30	< 46.30	n/a	n/a	n/a	46.30	n/a
S961002657	A	Lithium - ICP-Acid Digest	ug/g	85.00	< 1.00e-02	< 9.260	< 9.260	n/a	n/a	n/a	92.60	n/a
S961002657	A	Magnesium - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 9.260	< 9.260	n/a	n/a	n/a	92.60	n/a
S961002657	A	Manganese - ICP-Acid Digest	ug/g	90.20	< 1.00e-02	< 1.09e+02	< 1.18e+02	113.5	7.93	n/a	9.270	n/a
S961002657	A	Molybdenum - ICP-Acid Digest	ug/g	87.80	< 5.00e-02	< 46.30	< 46.30	n/a	n/a	n/a	46.30	n/a
S961002657	A	Sodium - ICP-Acid Digest	ug/g	104.4	< 7.00e-01	< 1.94e+02	< 2.13e+02	2.04e+05	9.34	n/a	92.60	n/a
S961002657	A	Mercurium - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 92.60	< 9.260	n/a	n/a	n/a	92.60	n/a
S961002657	A	Nickel - ICP-Acid Digest	ug/g	91.60	< 2.00e-02	< 45.80	< 51.30	48.55	11.3	n/a	18.50	n/a
S961002657	A	Phosphorus - ICP-Acid Digest	ug/g	97.00	< 2.00e-01	< 2.58e+03	< 2.13e+03	2.36e+03	19.1	n/a	185.0	n/a
S961002657	A	Sulfur - ICP-Acid Digest	ug/g	88.20	< 1.00e-01	< 92.60	< 9.260	3.02e+03	8.61	n/a	92.60	n/a
S961002657	A	Antimony - ICP-Acid Digest	ug/g	87.00	< 6.00e-02	< 55.60	< 5.94e+01	n/a	n/a	n/a	55.60	n/a
S961002657	A	Selenium - ICP-Acid Digest	ug/g	87.00	< 1.00e-01	< 92.60	< 9.260	n/a	n/a	n/a	92.60	n/a
S961002657	A	Silicon - ICP-Acid Digest	ug/g	143.4	< 9.00e-01	< 52.80	< 148.0	100.4	94.8	n/a	46.30	n/a
S961002657	A	Strontium - ICP-Acid Digest	ug/g	84.80	< 1.00e-02	< 9.260	< 9.260	n/a	n/a	n/a	92.60	n/a
S961002657	A	Titanium - ICP-Acid Digest	ug/g	80.80	< 1.00e-02	< 9.260	< 9.260	n/a	n/a	n/a	9.270	n/a
S961002657	A	Thallium - ICP-Acid Digest	ug/g	84.60	< 2.00e-01	< 1.85e+02	< 1.98e+02	n/a	n/a	n/a	185.0	n/a
S961002657	A	Uranium - ICP-Acid Digest	ug/g	79.00	< 5.00e-01	< 4.63e+02	< 4.95e+02	n/a	n/a	n/a	463.0	n/a
S961002657	A	Vanadium - ICP-Acid Digest	ug/g	88.00	< 5.00e-02	< 46.30	< 46.30	n/a	n/a	n/a	46.30	n/a
S961002657	A	Zinc - ICP-Acid Digest	ug/g	89.00	< 7.00e-02	< 17.40	< 17.40	17.40	n/a	n/a	9.270	n/a
S961002657	A	Zirconium - ICP-Acid Digest	ug/g	92.60	< 1.00e-02	< 9.260	< 9.260	n/a	n/a	n/a	9.270	n/a
S961002660	W	Fluoride-IC-Dioxex 40001/4500	ug/g	106.4	< 3.00e-02	< 1.88e+02	< 1.87e+02	n/a	n/a	104.1	188.0	n/a
S961002660	W	Chloride-IC-Dioxex 40001/4500	ug/g	106.1	< 1.70e-02	< 1.84e+03	< 1.96e+03	1.90e+03	6.32	104.6	245.9	n/a
S961002660	W	Nitrite-IC - Dioxex 40001/4500	ug/g	100.8	< 1.07e-01	< 2.09e+04	< 2.12e+04	2.11e+04	1.43	101.9	1.55e+03	n/a
S961002660	W	Bromide by Ion Chromatograph	ug/g	98.01	< 2.66e-01	< 9.22e+02	< 9.18e+02	n/a	n/a	90.32	922.5	n/a
S961002660	W	Nitrate by IC-Dioxex 40001/4500	ug/g	100.2	< 4.00e-01	< 5.63e+05	< 5.05e+05	5.34e+05	10.9	88.38	2.02e+03	n/a
S961002660	W	Phosphate-IC-Dioxex 40001/4500	ug/g	100.0	< 1.19e-01	< 7.04e+03	< 1.89e+04	1.30e+04	91.4	101.8	1.72e+03	n/a
S961002660	W	Sulfate by IC-Dioxex 40001/4500	ug/g	104.3	< 3.6e-01	< 1.06e+04	< 1.17e+04	1.12e+04	9.87	105.7	1.97e+03	n/a

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
3561002660	W	Oxalate by IC - Dionex 4000	ug/g	106.7	<1.05e-01	1.76e+03	2.51e+03	2.14e+03	35.1	106.3	1.52e+03	N/A
Lower Half of Segment: L Lower Half of Segment												
Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
3561002653		Bulk Density of Sample	g/mL	N/A	N/A	1.700	N/A	N/A	N/A	N/A	5.00e-01	N/A
3561002656		Joutherm Dry Calculated	Joules/g	N/A	N/A	24.07	29.36	26.71	19.8	N/A	N/A	N/A
3561002656		Joutherm Dry Calculated	Joules/g	92.97	N/A	18.20	22.20	20.20	19.8	N/A	N/A	N/A
3561002656		2 Water by TGA using Mettler	%	99.35	N/A	12.65	12.66	12.66	0.64	N/A	N/A	N/A
3561002656		2 Water by TGA using Mettler	%	99.35	N/A	11.72	11.73	11.73	0.64	N/A	N/A	N/A
3561002656		TIC by GC/MS	ug/g	100.2	1.400	5.00e+03	4.74e+03	4.87e+03	5.34	107.0	5.00e+03	N/A
3561002656		TIC by GC/MS	ug/g	100.2	1.400	5.00e+03	4.74e+03	4.87e+03	5.34	107.0	5.00e+03	N/A
3561002658	A	Silver - ICP-Acid Digest	ug/g	84.80	<1.00e-02	8.970	9.03e+02	8.970	N/A	N/A	8.960	N/A
3561002658	A	Aluminum - ICP-Acid Digest	ug/g	89.20	<1.31e-01	5.86e+02	5.93e+02	5.89e+02	3.54	N/A	89.70	N/A
3561002658	A	Arsenic - ICP-Acid Digest	ug/g	89.20	<1.00e-01	8.970	9.03e+02	8.970	N/A	N/A	89.70	N/A
3561002658	A	Boron - ICP-Acid Digest	ug/g	89.20	<8.97e-01	1.03e+02	99.01	101.3	3.56	N/A	89.70	N/A
3561002658	A	Barium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	4.480	N/A
3561002658	A	Beryllium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Bismuth - ICP-Acid Digest	ug/g	89.20	<1.00e-02	2.07e+02	159.0	183.0	26.2	N/A	89.70	N/A
3561002658	A	Calcium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	4.480	N/A
3561002658	A	Cadmium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Ceium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Chromium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	1.50e+03	1.47e+03	1.48e+03	2.02	N/A	8.960	N/A
3561002658	A	Cobalt - ICP-Acid Digest	ug/g	89.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002658	A	Copper - ICP-Acid Digest	ug/g	89.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002658	A	Fluorine - ICP-Acid Digest	ug/g	106.2	5.44e-01	9.35e+02	901.0	918.5	3.66	N/A	448.0	N/A
3561002658	A	Iron - ICP-Acid Digest	ug/g	88.40	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	4.480	N/A
3561002658	A	Lanthanum - ICP-Acid Digest	ug/g	85.00	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002658	A	Lithium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Magnesium - ICP-Acid Digest	ug/g	90.20	<1.00e-02	1.04e+02	107.0	106.3	0.94	N/A	8.960	N/A
3561002658	A	Manganese - ICP-Acid Digest	ug/g	87.80	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	44.80	N/A
3561002658	A	Molybdenum - ICP-Acid Digest	ug/g	104.4	7.50e-01	2.03e+05	2.04e+05	2.04e+05	0.49	N/A	89.70	N/A
3561002658	A	Niobium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Nickel - ICP-Acid Digest	ug/g	91.60	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	4.480	N/A
3561002658	A	Phosphorus - ICP-Acid Digest	ug/g	97.00	<2.00e-02	1.14e+03	1.20e+03	1.17e+03	5.13	N/A	179.0	N/A
3561002658	A	Lead - ICP-Acid Digest	ug/g	88.20	<1.00e-01	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Sulfur - ICP-Acid Digest	ug/g	92.20	<1.00e-01	2.22e+03	2.24e+03	2.23e+03	0.90	N/A	89.70	N/A
3561002658	A	Tantalum - ICP-Acid Digest	ug/g	87.00	<1.00e-02	5.380	<5.42e+01	5.380	N/A	N/A	53.80	N/A
3561002658	A	Selenium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Silicon - ICP-Acid Digest	ug/g	143.4	9.60e-01	1.49e+02	138.0	143.5	7.67	N/A	44.80	N/A
3561002658	A	Strontium - ICP-Acid Digest	ug/g	86.80	<1.00e-01	8.970	<9.03e+01	8.970	N/A	N/A	89.70	N/A
3561002658	A	Thallium - ICP-Acid Digest	ug/g	86.20	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002658	A	Thallium - ICP-Acid Digest	ug/g	80.80	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002658	A	Thallium - ICP-Acid Digest	ug/g	84.60	<2.00e-01	1.79e+02	<1.81e+02	N/A	N/A	N/A	179.0	N/A
3561002658	A	Thallium - ICP-Acid Digest	ug/g	79.00	<5.00e-01	4.48e+02	<4.52e+02	N/A	N/A	N/A	448.0	N/A
3561002658	A	Uranium - ICP-Acid Digest	ug/g	86.00	<5.00e-01	4.480	<4.52e+01	4.480	N/A	N/A	44.80	N/A
3561002658	A	Vanadium - ICP-Acid Digest	ug/g	89.20	<1.00e-02	4.480	<4.52e+01	4.480	N/A	N/A	8.960	N/A
3561002658	A	Zinc - ICP-Acid Digest	ug/g	92.60	<1.00e-02	8.970	<9.03e+01	8.970	N/A	N/A	8.960	N/A
3561002661	W	Fluoride-IC-Dionex 4000/14500	ug/g	102.7	<1.30e-02	<1.22e+02	<1.29e+02	N/A	N/A	N/A	121.5	N/A

Sample #	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPO %	Spk Rec %	Det Limit	Count Error
S961002661	W Nitrate by IC-Dioxex 40001/4500	ug/g	102.9	< 1.70e-02	2.33e+03	2.33e+03	2.25e+03	5.76	n/a	158.9	n/a
S961002662	W Nitrate by IC-Dioxex 40001/4500	ug/g	98.14	< 1.07e-01	2.44e+04	2.47e+04	2.36e+04	7.22	n/a	1,00e+03	n/a
S961002663	W Nitrate by Ion Chromatograph	ug/g	100.7	< 1.28e-01	1.18e+03	1.18e+03	1.18e+03	n/a	n/a	1.18e+03	n/a
S961002664	W Nitrate by IC-Dioxex 40001/4500	ug/g	99.66	< 1.40e-01	5.45e+05	5.36e+05	5.40e+05	1.67	n/a	1.31e+03	n/a
S961002665	W Phosphate by IC-Dioxex 40001/4500	ug/g	100.5	< 1.56e-01	4.39e+03	4.39e+03	4.39e+03	80.5	n/a	1.18e+03	n/a
S961002666	W Sulfate by IC-Dioxex 40001/4500	ug/g	101.9	< 1.56e-01	7.05e+03	7.05e+03	7.05e+03	0.13	n/a	1.27e+03	n/a
S961002667	W Sulfate by IC-Dioxex 40001	ug/g	104.1	< 1.05e-02	2.05e+03	1.53e+03	1.79e+03	29.1	n/a	981.2	n/a
S961002668	F 31 (ver) - ICP-Fusion	ug/g	99.40	< 1.00e-02	1.84e+02	1.84e+02	n/a	n/a	92.90	188.0	n/a
S961002669	F Aluminum - ICP-Fusion	ug/g	97.20	< 5.00e-02	6.33e+03	6.33e+03	6.34e+03	0.32	97.70	927.0	n/a
S961002670	F Arsenic - ICP-Fusion	ug/g	102.8	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	102.2	1.85e+03	n/a
S961002671	F Boron - ICP-Fusion	ug/g	99.80	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	96.30	927.0	n/a
S961002672	F Barium - ICP-Fusion	ug/g	98.40	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	97.60	927.0	n/a
S961002673	F Beryllium - ICP-Fusion	ug/g	102.4	< 5.00e-01	< 9.21e+02	< 9.21e+02	n/a	n/a	100.0	927.0	n/a
S961002674	F Cadmium - ICP-Fusion	ug/g	101.6	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	101.3	1.85e+03	n/a
S961002675	F Calcium - ICP-Fusion	ug/g	100.4	< 5.00e-03	< 9.21e+02	< 9.21e+02	n/a	n/a	102.0	1.85e+03	n/a
S961002676	F Cerium - ICP-Fusion	ug/g	101.8	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	103.2	1.85e+03	n/a
S961002677	F Chromium - ICP-Fusion	ug/g	101.4	< 1.00e-02	1.85e+03	1.85e+03	n/a	n/a	103.2	1.85e+03	n/a
S961002678	F Cobalt - ICP-Fusion	ug/g	101.2	< 1.00e-02	1.85e+03	1.85e+03	1.72e+03	3.45	101.3	188.0	n/a
S961002679	F Copper - ICP-Fusion	ug/g	103.1	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	101.3	188.0	n/a
S961002680	F Iron - ICP-Fusion	ug/g	100.8	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	101.2	927.0	n/a
S961002681	F Potassium - ICP-Fusion	ug/g	99.40	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	n/a	9.27e+03	n/a
S961002682	F Lithium - ICP-Fusion	ug/g	99.20	< 1.00e-03	1.85e+03	1.85e+03	n/a	n/a	97.16	927.0	n/a
S961002683	F Lithium - ICP-Fusion	ug/g	97.40	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	96.30	1.85e+03	n/a
S961002684	F Magnesium - ICP-Fusion	ug/g	98.40	< 1.00e-02	< 1.85e+02	< 1.85e+02	n/a	n/a	96.40	188.0	n/a
S961002685	F Manganese - ICP-Fusion	ug/g	100.4	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	101.2	927.0	n/a
S961002686	F Molybdenum - ICP-Fusion	ug/g	99.00	< 2.410	2.91e+05	2.92e+05	2.92e+05	0.34	116.1	1.85e+03	n/a
S961002687	F Sodium - ICP-Fusion	ug/g	100.8	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	101.5	1.85e+03	n/a
S961002688	F Neodymium - ICP-Fusion	ug/g	100.4	< 2.00e-02	6.15e+02	6.91e+02	n/a	n/a	100.3	371.0	n/a
S961002689	F Nickel - ICP-Fusion	ug/g	104.0	< 2.00e-01	1.85e+03	1.85e+03	n/a	n/a	112.0	3.71e+03	n/a
S961002690	F Lead - ICP-Fusion	ug/g	99.80	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	101.5	1.85e+03	n/a
S961002691	F Sulfur - ICP-Fusion	ug/g	95.40	< 6.00e-02	< 1.11e+03	< 1.11e+03	2.38e+03	8.81	97.50	1.85e+03	n/a
S961002692	F Antimony - ICP-Fusion	ug/g	97.60	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	96.80	1.18e+03	n/a
S961002693	F Selenium - ICP-Fusion	ug/g	98.40	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	97.50	1.85e+03	n/a
S961002694	F Silver - ICP-Fusion	ug/g	97.20	< 1.00e-01	1.85e+03	1.85e+03	n/a	n/a	100.5	927.0	n/a
S961002695	F Strontium - ICP-Fusion	ug/g	98.00	< 1.00e-02	< 1.85e+02	< 1.85e+02	n/a	n/a	97.50	1.85e+03	n/a
S961002696	F Tantalum - ICP-Fusion	ug/g	97.00	< 1.00e-02	< 1.85e+02	< 1.85e+02	n/a	n/a	98.00	188.0	n/a
S961002697	F Tellurium - ICP-Fusion	ug/g	97.40	< 2.00e-01	3.71e+03	3.71e+03	3.71e+03	n/a	94.10	3.71e+03	n/a
S961002698	F Thallium - ICP-Fusion	ug/g	94.90	< 5.00e-01	< 9.21e+03	< 9.21e+03	n/a	n/a	88.30	9.27e+03	n/a
S961002699	F Vanadium - ICP-Fusion	ug/g	99.80	< 5.00e-02	< 9.21e+02	< 9.21e+02	n/a	n/a	99.30	927.0	n/a
S961002700	F Zinc - ICP-Fusion	ug/g	101.2	< 1.00e-02	< 1.85e+02	< 1.85e+02	n/a	n/a	101.7	188.0	n/a
S961002701	F Zirconium - ICP-Fusion	ug/g	98.00	< 1.00e-02	< 1.85e+02	< 1.85e+02	n/a	n/a	98.00	188.0	n/a
S961002702	F Cobalt-60 by GEA	uCi/g	103.3	< 7.35e-02	< 7.00e-02	< 7.87e-02	n/a	n/a	n/a	7.60e+02	n/a
S961002703	F Cesium-137 by GEA	uCi/g	98.78	< 2.07e-01	63.31	62.86	62.86	1.43	n/a	7.60e+02	1.45
S961002704	F Europium-154 by GEA	uCi/g	n/a	< 2.31e-01	< 2.31e-01	< 2.44e-01	n/a	n/a	n/a	2.31e+01	n/a
S961002705	F Europium-155 by GEA	uCi/g	n/a	< 1.89e-01	< 5.56e-01	< 5.61e-01	n/a	n/a	n/a	5.56e+01	n/a
S961002706	F Americium-241 by GEA	uCi/g	n/a	< 4.78e-01	< 1.130	< 1.12e+01	n/a	n/a	n/a	1.130	n/a
S961002707	F Alpha of Digested Solid	uCi/g	102.3	n/a	1.21e-01	1.29e-01	1.25e-01	6.40	77.44	5.00e-03	1.04e+01

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD, % Spk Rec, %	Det Limit	Count Err
S961002775		DSC Exotherm using Mettler	Joules/g	112.1	n/a	35.10	36.00	35.55	n/a	n/a	n/a
S961002775		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	45.17	46.32	45.75	n/a	n/a	n/a
S961002775		% Water by TGA using Mettler	%	98.36	n/a	24.47	20.10	22.29	n/a	n/a	n/a
S961002775		TIC by Acid/Coulometry	ug/g	97.67	1.200	7.55e+03	7.05e+03	7.62e+03	1.97	107.0	5,000
S961002775		TOC by Persulfate/Coulometry	ug/g	89.67	3.00e-01	6.78e+03	7.02e+03	6.90e+03	3.48	108.0	40.00
S961002781		Bulk Density of Sample	g/mL	n/a	n/a	1.700	n/a	n/a	n/a	5.00e-01	n/a
S961002781		F Silver - ICP-Fusion	ug/g	99.40	<1.00e-02	<1.96e+02	<2.04e2	n/a	91.70	194.0	n/a
S961002793		F Aluminum - ICP-Fusion	ug/g	97.20	<5.00e-02	<1.31e+03	1.49e+03	1.36e+03	6.64	97.10	981.0
S961002793		F Arsenic - ICP-Fusion	ug/g	102.8	<1.00e-01	<1.96e+03	<2.04e3	n/a	102.0	1.96e+03	n/a
S961002793		F Boron - ICP-Fusion	ug/g	99.80	<5.00e-02	<9.81e+02	<1.02e3	n/a	97.60	981.0	n/a
S961002793		F Barium - ICP-Fusion	ug/g	98.40	<5.00e-02	<9.81e+02	<1.02e3	n/a	96.30	981.0	n/a
S961002793		F Beryllium - ICP-Fusion	ug/g	102.4	<5.00e-01	<1.96e+03	<2.04e3	n/a	100.0	1.96e+03	n/a
S961002793		F Bismuth - ICP-Fusion	ug/g	100.6	<1.00e-01	<1.96e+03	<2.04e3	n/a	102.0	1.96e+03	n/a
S961002793		F Calcium - ICP-Fusion	ug/g	101.6	<1.00e-01	<1.96e+03	<2.04e3	n/a	99.00	981.0	n/a
S961002793		F Cadmium - ICP-Fusion	ug/g	101.4	<5.00e-02	<9.81e+02	<1.02e3	n/a	102.0	1.96e+03	n/a
S961002793		F Cerium - ICP-Fusion	ug/g	101.8	<2.00e-02	<3.92e+02	<4.08e2	n/a	99.80	992.0	n/a
S961002793		F Cobalt - ICP-Fusion	ug/g	101.4	<2.00e-02	<3.92e+02	<4.08e2	n/a	100.5	196.0	n/a
S961002793		F Chromium - ICP-Fusion	ug/g	102.2	<1.00e-02	<1.96e+02	<2.04e2	n/a	101.0	196.0	n/a
S961002793		F Copper - ICP-Fusion	ug/g	100.8	<5.00e-02	<9.81e+02	<1.02e3	n/a	101.0	981.0	n/a
S961002793		F Iron - ICP-Fusion	ug/g	100.8	<5.00e-01	<9.81e+02	<1.02e3	n/a	n/a	9.81e+03	n/a
S961002793		F Potassium - ICP-Fusion	ug/g	99.60	<5.00e-02	<9.81e+02	<1.02e3	n/a	99.00	981.0	n/a
S961002793		F Lanthanum - ICP-Fusion	ug/g	99.20	<1.00e-02	<1.96e+02	<2.04e2	n/a	97.80	196.0	n/a
S961002793		F Lithium - ICP-Fusion	ug/g	97.40	<1.00e-01	<1.96e+02	<2.04e2	n/a	95.60	1.96e+03	n/a
S961002793		F Magnesium - ICP-Fusion	ug/g	98.60	<5.00e-02	<9.81e+02	<1.02e3	n/a	95.60	196.0	n/a
S961002793		F Manganese - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.81e+02	<1.02e3	n/a	100.5	981.0	n/a
S961002793		F Molybdenum - ICP-Fusion	ug/g	99.00	<2.410	<2.77e+02	2.72e+02	2.74e+02	1.82	121.2	1.96e+03
S961002793		F Sodium - ICP-Fusion	ug/g	100.8	<1.00e-01	<1.96e+03	<2.04e3	n/a	100.5	1.96e+03	n/a
S961002793		F Neodymium - ICP-Fusion	ug/g	100.4	<2.00e-02	<3.92e+02	<4.08e2	n/a	99.70	392.0	n/a
S961002793		F Nickel - ICP-Fusion	ug/g	104.0	<2.00e-01	<3.92e+02	<4.08e2	n/a	120.2	3.92e+03	n/a
S961002793		F Phosphorus - ICP-Fusion	ug/g	100.0	<1.00e-01	<1.96e+02	<2.04e2	n/a	99.50	1.96e+03	n/a
S961002793		F Lead - ICP-Fusion	ug/g	99.80	<1.00e-01	<3.92e+02	3.92e+02	3.78e+02	7.13	99.50	1.96e+03
S961002793		F Selenium - ICP-Fusion	ug/g	95.40	<5.00e-02	<1.96e+02	<2.04e2	n/a	95.10	1.96e+03	n/a
S961002793		F Silver - ICP-Fusion	ug/g	97.60	<1.00e-01	<1.96e+02	<2.04e2	n/a	100.2	1.96e+03	n/a
S961002793		F Strontium - ICP-Fusion	ug/g	98.40	<5.00e-02	<9.81e+02	<1.02e3	n/a	95.60	1.96e+03	n/a
S961002793		F Silicon - ICP-Fusion	ug/g	97.20	<1.00e-01	<1.96e+02	<2.04e2	n/a	100.0	196.0	n/a
S961002793		F Samarium - ICP-Fusion	ug/g	98.00	<1.00e-02	<1.96e+02	<2.04e2	n/a	95.60	1.96e+03	n/a
S961002793		F Strontium - ICP-Fusion	ug/g	97.00	<1.00e-02	<1.96e+02	<2.04e2	n/a	97.10	196.0	n/a
S961002793		F Tantalum - ICP-Fusion	ug/g	97.40	<5.00e-01	<3.92e+02	<4.08e2	n/a	94.60	3.92e+03	n/a
S961002793		F Thallium - ICP-Fusion	ug/g	94.90	<5.00e-01	<3.92e+02	<4.08e2	n/a	96.30	9.81e+03	n/a
S961002793		F Uranium - ICP-Fusion	ug/g	99.80	<5.00e-02	<9.81e+02	<1.02e3	n/a	98.00	981.0	n/a
S961002793		F Vanadium - ICP-Fusion	ug/g	101.2	<1.00e-02	<1.96e+02	<2.04e2	n/a	101.2	196.0	n/a
S961002793		F Zinc - ICP-Fusion	ug/g	98.00	<1.00e-02	<1.96e+02	<2.04e2	n/a	97.30	196.0	n/a
S961002793		F Zirconium - ICP-Fusion	ug/g	98.00	<1.00e-02	<1.96e+02	<2.04e2	n/a	97.30	196.0	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002793	F	Cobalt-60 by GEA	uCi/g	103.3	< 7.35e-02	< 9.38e-02	< 9.89e-2	N/A	N/A	N/A	9.40e-02	N/A
S961002793	F	Cesium-137 by GEA	uCi/g	98.78	< 2.07e-01	< 1.41e-02	< 146.0	144.8	5.52	N/A	N/A	1.00
S961002793	F	Europium-154 by GEA	uCi/g	N/A	< 2.33e-01	< 2.88e-01	< 3.68e-1	N/A	N/A	N/A	2.88e-01	N/A
S961002793	F	Europium-155 by GEA	uCi/g	N/A	< 1.89e-01	< 8.29e-01	< 8.08e-1	N/A	N/A	N/A	8.29e-01	N/A
S961002793	F	Europium-241 by GEA	uCi/g	N/A	< 1.75e-01	< 1.75e-01	< 1.80e0	N/A	N/A	N/A	1.75e-01	N/A
S961002799	A	Strontium-90 by GEA	uCi/g	84.50	< 4.00e-02	< 9.050	< 9.29e0	N/A	N/A	N/A	9.050	N/A
S961002799	A	Aluminum - ICP-Acid Digest	uCi/g	89.80	< 1.31e-01	< 1.21e-04	< 1.7e-04	1.19e+04	3.36	N/A	45.50	N/A
S961002799	A	Asenic - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Boron - ICP-Acid Digest	uCi/g	99.20	< 4.51e-01	< 82.50	< 96.80	89.65	16.0	N/A	45.20	N/A
S961002799	A	Beryllium - ICP-Acid Digest	uCi/g	85.60	< 5.00e-02	< 4.520	< 4.64e0	N/A	N/A	N/A	4.520	N/A
S961002799	A	Bismuth - ICP-Acid Digest	uCi/g	98.00	< 1.00e-01	< 4.520	< 4.64e0	N/A	N/A	N/A	4.520	N/A
S961002799	A	Calcium - ICP-Acid Digest	uCi/g	85.80	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Cadmium - ICP-Acid Digest	uCi/g	93.60	< 3.40e-03	< 5.90e-02	< 207.0	398.5	96.1	N/A	90.50	N/A
S961002799	A	Cerium - ICP-Acid Digest	uCi/g	88.80	< 3.00e-03	< 5.210	< 4.950	5.080	5.12	N/A	4.530	N/A
S961002799	A	Cobalt - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Cobalt - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Copper - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Chromium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Iron - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Potassium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Lanthanum - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Lithium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Magnesium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Manganese - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Molybdenum - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Sodium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Nickel - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Phosphorus - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Lead - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Sulfur - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Antimony - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Selenium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Silicon - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Samarium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Strontium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Titanium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Thallium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Uranium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Vanadium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Zinc - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002799	A	Zirconium - ICP-Acid Digest	uCi/g	89.60	< 1.00e-01	< 90.50	< 9.29e1	N/A	N/A	N/A	90.50	N/A
S961002805	W	Fluoride-IC-Dioxex 40001/4500	uCi/g	102.7	< 1.30e-02	< 1.08e-02	< 1.17e2	27.10	45.8	N/A	118.3	N/A
S961002805	W	Chloride-IC-Dioxex 40001/4500	uCi/g	102.9	< 1.70e-02	< 1.66e-03	< 5.9e-03	4.82e-04	10.4	N/A	97.49	N/A
S961002805	W	Nitrate-IC - Dioxex 40001/4500	uCi/g	98.14	< 1.07e-01	< 4.51e-04	< 5.07e-04	4.82e-04	10.4	N/A	97.49	N/A
S961002805	W	Mitrate by Ion Chromatograph	uCi/g	100.7	< 1.28e-01	< 1.19e-03	< 1.14e3	N/A	N/A	N/A	95.03	N/A
S961002805	W	Nitrate by IC-Dioxex40001/4500	uCi/g	99.66	< 1.40e-01	< 4.19e-03	< 3.97e-05	4.07e-05	4.67	N/A	1.5e+03	N/A
S961002805	W	Phosphate-IC-Dioxex 40001/4500	uCi/g	100.9	< 1.39e-01	< 2.40e-03	< 4.26e-03	3.36e-03	55.6	N/A	1.2e+03	N/A
S961002805	W	Sulfate by IC-Dioxex40001/4500	uCi/g	101.9	< 1.36e-01	< 1.14e-04	< 1.13e-04	1.13e-04	0.86	N/A	1.2e+03	N/A
S961002805	W	Oxalate by IC - Dioxex 40001	uCi/g	104.1	< 1.05e-01	< 4.59e-03	< 4.74e+03	4.66e+03	3.22	N/A	955.1	N/A

L Lower Half of Segment: L Lower Half of Segment

Sample #	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPB %	Spk Rec %	Det Limit	Count Err%
S961002766		OSC Exotherm using Mettler	Joules/g	114.9	n/a	29.80	41.70	35.75	35.3	n/a	n/a	n/a
S961002766		OSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	42.57	59.57	51.07	35.3	n/a	n/a	n/a
S961002766		% Water by TGA using Mettler	%	99.09	n/a	30.10	30.00	30.00	0.67	n/a	n/a	n/a
S961002766		TIC by Acid/Coulometry	ug/g	97.67	1.200	9.92e+03	1.01e+04	1.00e+04	1.80	n/a	5.000	n/a
S961002766		TIC by Persulfate/Coulometry	ug/g	89.67	3.00e-01	9.86e+03	8.92e+03	9.39e+03	10.0	n/a	40.00	n/a
S961002766		Bulk Density of Sample	g/mL	n/a	n/a	1.610		n/a	n/a	n/a	5.00e-01	n/a
S961002766		F Silver - ICP-Fusion	ug/g	98.80	<1.00e-02	<1.99e+02	<1.94e2	n/a	n/a	14.30	999.0	n/a
S961002766		F Aluminum - ICP-Fusion	ug/g	98.20	<5.00e-02	<1.68e+04	<1.47e+04	1.58e+04	13.3	98.30	997.0	n/a
S961002766		F Arsenic - ICP-Fusion	ug/g	103.8	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	106.8	1.99e+03	n/a
S961002766		F Boron - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	97.30	997.0	n/a
S961002766		F Barium - ICP-Fusion	ug/g	99.48	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	97.80	997.0	n/a
S961002766		F Beryllium - ICP-Fusion	ug/g	104.8	<5.00e-03	<9.70e2	<9.70e1	n/a	n/a	103.2	99.60	n/a
S961002766		F Bismuth - ICP-Fusion	ug/g	101.4	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	102.0	1.99e+03	n/a
S961002766		F Calcium - ICP-Fusion	ug/g	99.80	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	104.9	1.99e+03	n/a
S961002766		F Cadmium - ICP-Fusion	ug/g	99.40	<5.00e-03	<9.70e2	<9.70e1	n/a	n/a	99.30	99.60	n/a
S961002766		F Cerium - ICP-Fusion	ug/g	102.2	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	103.2	1.99e+03	n/a
S961002766		F Cobalt - ICP-Fusion	ug/g	101.0	<1.00e-02	<2.54e+03	<2.09e+03	2.32e+03	19.4	100.9	999.0	n/a
S961002766		F Chromium - ICP-Fusion	ug/g	104.6	<1.00e-02	<1.99e+02	<1.94e2	n/a	n/a	103.2	999.0	n/a
S961002766		F Copper - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	103.2	999.0	n/a
S961002766		F Iron - ICP-Fusion	ug/g	98.40	<5.00e-01	<7.73e+05	<7.70e5	n/a	n/a	100.7	9.97e+03	n/a
S961002766		F Potassium - ICP-Fusion	ug/g	100.4	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	97.80	999.0	n/a
S961002766		F Lithium - ICP-Fusion	ug/g	99.6	<1.00e-02	<1.99e+02	<1.94e2	n/a	n/a	97.10	1.99e+03	n/a
S961002766		F Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	95.40	999.0	n/a
S961002766		F Manganese - ICP-Fusion	ug/g	100.2	<5.00e-02	<2.44e+02	<2.13e2	2.28e3	13.6	100.7	999.0	n/a
S961002766		F Molybdenum - ICP-Fusion	ug/g	101.9	<1.00e-01	<2.44e+02	<2.13e2	n/a	n/a	103.3	1.99e+03	n/a
S961002766		F Sodium - ICP-Fusion	ug/g	105.5	<5.00e-02	<2.44e+02	<2.13e2	2.44e+03	17.6	103.3	1.99e+03	n/a
S961002766		F Nickel - ICP-Fusion	ug/g	99.06	<2.00e-02	<2.44e+02	<2.13e2	2.44e+03	52.2	97.10	1.99e+03	n/a
S961002766		F Phosphorus - ICP-Fusion	ug/g	105.5	<5.00e-01	<3.96e+03	<3.88e3	3.89e3	52.2	97.10	1.99e+03	n/a
S961002766		F Lead - ICP-Fusion	ug/g	98.80	<1.00e-01	<3.96e+03	<3.88e3	n/a	n/a	106.45	3.99e+03	n/a
S961002766		F Sulfur - ICP-Fusion	ug/g	98.80	<1.00e-01	<3.96e+03	<3.88e3	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Antimony - ICP-Fusion	ug/g	95.80	<5.00e-02	<3.03e+03	<4.06e+03	4.54e+03	21.3	96.40	1.99e+03	n/a
S961002766		F Selenium - ICP-Fusion	ug/g	98.80	<1.00e-01	<3.96e+03	<3.88e3	n/a	n/a	96.40	1.99e+03	n/a
S961002766		F Silver - ICP-Fusion	ug/g	97.40	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Silicon - ICP-Fusion	ug/g	97.40	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Samarium - ICP-Fusion	ug/g	98.40	<1.00e-01	<1.99e+03	<1.94e3	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Strontium - ICP-Fusion	ug/g	99.40	<1.00e-02	<1.99e+03	<1.94e3	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Titanium - ICP-Fusion	ug/g	98.40	<1.00e-02	<1.99e+03	<1.94e3	n/a	n/a	97.40	1.99e+03	n/a
S961002766		F Thallium - ICP-Fusion	ug/g	97.00	<2.00e-01	<3.96e+03	<3.88e3	n/a	n/a	91.70	3.99e+03	n/a
S961002766		F Uranium - ICP-Fusion	ug/g	96.40	<5.00e-01	<9.7e+03	<9.70e3	n/a	n/a	90.60	9.97e+03	n/a
S961002766		F Vanadium - ICP-Fusion	ug/g	100.2	<5.00e-02	<9.7e+02	<9.70e2	n/a	n/a	100.0	997.0	n/a
S961002766		F Zinc - ICP-Fusion	ug/g	100.0	<1.00e-02	<5.29e+02	<5.28e2	528.5	0.19	99.10	999.0	n/a
S961002766		F Zirconium - ICP-Fusion	ug/g	98.40	<1.00e-02	<1.99e+02	<1.94e2	n/a	n/a	97.80	999.0	n/a
S961002766		F Cobalt-60 by GEA	uCi/g	103.7	<8.44e-02	<1.41e+01	<1.38e+1	n/a	n/a	n/a	1.41e+01	n/a
S961002766		F Cesium-137 by GEA	uCi/g	101.0	<2.82e-01	<1.84e+02	<1.78e+2	181.1	3.31	n/a	n/a	n/a
S961002766		F Europium-154 by GEA	uCi/g	n/a	<3.36e-01	<5.02e+01	<4.72e+1	n/a	n/a	n/a	5.02e+01	n/a
S961002766		F Europium-155 by GEA	uCi/g	n/a	<2.94e-01	<5.02e+01	<4.72e+1	n/a	n/a	n/a	1.06e1	n/a
S961002766		F Americium-241 by GEA	uCi/g	n/a	<7.68e-01	<2.76e1	<2.68e1	n/a	n/a	n/a	2.76e1	n/a

Sample#	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002794	F Al ₂ O ₃ of Digested Solid	GC/g	11.78	N/A	3.15e-01	3.47e-01	3.45e-01	0.58	89.44	1.50e-02	1.19E+01
S961002800	A Silicon - ICP-Acid Digest	UG/g	70.20	< 1.00e-02	< 2.630	< 2.630	N/A	N/A	84.50	7.48e-01	N/A
S961002800	A Aluminum - ICP-Acid Digest	UG/g	86.50	< 1.32e-01	< 1.87e-04	< 1.87e-04	1.50e-04	4.00	89.20	76.30	N/A
S961002800	A Arsenic - ICP-Acid Digest	UG/g	87.60	< 1.00e-01	< 96.30	< 97.0e1	N/A	N/A	89.20	48.10	N/A
S961002800	A Boron - ICP-Acid Digest	UG/g	87.60	< 2.72e-01	< 30.00	123.0	106.3	31.0	89.20	48.10	N/A
S961002800	A Barium - ICP-Acid Digest	UG/g	85.00	< 2.00e-02	< 48.10	< 44.85e1	N/A	N/A	89.20	48.10	N/A
S961002800	A Beryllium - ICP-Acid Digest	UG/g	82.60	< 2.00e-03	< 4.810	< 4.810	N/A	N/A	89.20	48.10	N/A
S961002800	A Bismuth - ICP-Acid Digest	UG/g	85.20	< 1.00e-01	< 96.30	< 97.0e1	N/A	N/A	89.00	96.30	N/A
S961002800	A Calcium - ICP-Acid Digest	UG/g	82.60	< 2.00e-03	< 2.56e+02	< 2.530	249.3	5.21	85.00	96.30	N/A
S961002800	A Cadmium - ICP-Acid Digest	UG/g	84.00	< 2.00e-03	< 6.080	< 7.410	6.743	19.7	86.56	4.810	N/A
S961002800	A Cerium - ICP-Acid Digest	UG/g	88.00	< 1.00e-01	< 96.30	< 97.0e1	N/A	N/A	94.00	96.30	N/A
S961002800	A Cobalt - ICP-Acid Digest	UG/g	84.60	< 1.00e-02	< 19.30	< 1.94e1	N/A	N/A	86.20	19.30	N/A
S961002800	A Chromium - ICP-Acid Digest	UG/g	84.60	< 1.00e-02	< 2.06e+03	< 2.07e+03	2.06e+03	0.48	76.10	9.620	N/A
S961002800	A Copper - ICP-Acid Digest	UG/g	81.60	< 1.80e-02	< 9.630	< 97.0e1	N/A	N/A	86.40	9.620	N/A
S961002800	A Iron - ICP-Acid Digest	UG/g	94.60	< 2.00e-02	< 6.04e+02	< 597.0	601.3	0.83	83.10	48.10	N/A
S961002800	A Potassium - ICP-Acid Digest	UG/g	86.20	< 1.00e-02	< 48.10	< 44.85e1	N/A	N/A	91.40	48.10	N/A
S961002800	A Lithiumum - ICP-Acid Digest	UG/g	84.40	< 1.00e-02	< 2.630	< 97.0e1	N/A	N/A	86.00	9.620	N/A
S961002800	A Magnesium - ICP-Acid Digest	UG/g	82.00	< 1.00e-02	< 96.30	< 97.0e1	N/A	N/A	83.60	96.30	N/A
S961002800	A Manganese - ICP-Acid Digest	UG/g	84.80	< 1.00e-02	< 2.11e+02	< 213.0	212.0	0.94	85.68	9.620	N/A
S961002800	A Molybdenum - ICP-Acid Digest	UG/g	83.80	< 1.00e-02	< 48.10	< 44.85e1	N/A	N/A	89.40	48.10	N/A
S961002800	A Sodium - ICP-Acid Digest	UG/g	102.0	< 1.72e-01	< 1.85e+03	< 1.85e+03	1.85e+03	2.14	80.96	96.30	N/A
S961002800	A Sesiumum - ICP-Acid Digest	UG/g	88.20	< 1.00e-01	< 96.30	< 97.0e1	N/A	N/A	92.50	96.30	N/A
S961002800	A Strontium - ICP-Acid Digest	UG/g	88.00	< 1.00e-02	< 1.92e+02	< 108.0	110.0	3.84	87.52	19.30	N/A
S961002800	A Thallium - ICP-Acid Digest	UG/g	82.60	< 1.00e-01	< 1.72e+03	< 896.0	1.08e+03	34.3	72.68	93.00	N/A
S961002800	A Tin - ICP-Acid Digest	UG/g	87.40	< 1.00e-01	< 59.60	< 4.73e+03	4.46e+03	0.22	27.10	96.30	N/A
S961002800	A Titanium - ICP-Acid Digest	UG/g	87.20	< 1.00e-02	< 96.30	< 97.0e1	N/A	N/A	91.40	96.30	N/A
S961002800	A Vanadium - ICP-Acid Digest	UG/g	140.4	< 1.820	< 1.82e+02	< 109.1	191.3	7.83	86.28	96.30	N/A
S961002800	A Selenium - ICP-Acid Digest	UG/g	85.80	< 1.00e-02	< 96.30	< 97.0e1	N/A	N/A	89.20	96.30	N/A
S961002800	A Strontium - ICP-Acid Digest	UG/g	84.40	< 1.00e-02	< 9.630	< 97.0e1	N/A	N/A	89.00	9.620	N/A
S961002800	A Zirconium - ICP-Acid Digest	UG/g	79.00	< 1.00e-02	< 9.630	< 97.0e1	N/A	N/A	81.80	9.620	N/A
S961002800	A Thallium - ICP-Acid Digest	UG/g	80.40	< 2.00e-01	< 91.40e2	< 94.20	N/A	N/A	81.80	193.0	N/A
S961002800	A Uranium - ICP-Acid Digest	UG/g	83.20	< 5.00e-01	< 4.810	< 48.50	N/A	N/A	82.40	48.10	N/A
S961002800	A Vanadium - ICP-Acid Digest	UG/g	83.80	< 2.50e-02	< 48.10	< 44.85e1	N/A	N/A	82.40	48.10	N/A
S961002800	A Zinc - ICP-Acid Digest	UG/g	82.40	< 2.50e-02	< 38.10	< 30.00	30.00	18.8	87.62	9.620	N/A
S961002800	A Zirconium - ICP-Acid Digest	UG/g	91.00	< 1.00e-02	< 14.50	< 10.70	12.40	30.2	81.50	9.620	N/A
S961002806	A Fluoride - ICP-Dioxin 40001/4500	UG/g	104.6	< 1.30e-02	< 28.0e2	< 1.28e2	5.30e+03	7.79	100.3	169.7	N/A
S961002806	A Chloride - ICP-Dioxin 40001/4500	UG/g	98.10	< 1.70e-03	< 5.26e+03	< 1.66e+04	5.31e+04	5.16	109.2	1.08e+03	N/A
S961002806	A Nitrate - ICP-Dioxin 40001/4500	UG/g	95.21	< 1.07e-01	< 2.67e+03	< 1.20e+04	5.16	102.9	100.3	1.08e+03	N/A
S961002806	A Bromide by Ion Chromatograph	UG/g	95.65	< 1.40e-01	< 2.67e+03	< 1.20e+04	5.16	102.9	100.3	1.08e+03	N/A
S961002806	A Nitrate by IC-Dioxin 40001/4500	UG/g	97.24	< 2.40e-01	< 2.67e+03	< 2.98e+05	2.91e+05	6.84	106.7	1.08e+03	N/A
S961002806	A Phosphate - ICP-Dioxin 40001/4500	UG/g	98.35	< 1.19e-01	< 4.85e+03	< 5.19e+03	2.99	100.9	100.3	1.08e+03	N/A
S961002806	A Sulfate by IC-Dioxin 40001/4500	UG/g	99.68	< 1.34e-01	< 1.54e+04	< 1.52e+04	1.53e+04	1.31	103.2	1.08e+03	N/A
S961002806	A Oxalate by IC - Dioxin 40001	UG/g	103.0	< 1.05e-01	< 6.48e+03	< 6.40e+03	6.34e+03	1.83	106.3	1.08e+03	N/A

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPO % Spk Rec %	Det Limit	Count Err%
5961002777		DSC Exotherm using Mettler	Joules/g	116.9	n/a	87.60	151.0	91.30	12.2	n/a	n/a
5961002777		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	1.4e+06	143.1	143.1	3.2	n/a	n/a
5961002777		% Water by TGA using Mettler	%	99.09	n/a	35.96	33.70	34.80	6.32	n/a	n/a
5961002777		TIC by Autosulfate/Coulometry	ug/g	97.67	1.200	2.1e+04	2.2e+04	2.15e+04	5.08	5.000	n/a
5961002777		TIC by Persulfate/Coulometry	ug/g	89.57	3.00e-01	1.1e+04	1.1e+04	1.18e+04	2.55	n/a	n/a
5961002783		Bulk Density of Sample	g/mL	n/a	n/a	1.530	n/a	n/a	n/a	5.00e-01	n/a
5961002794		F Silver - ICP-Fusion	ug/g	98.80	< 1.00e-05	< 1.97e-03	< 1.97e-03	1.98e-04	19.20	197.0	n/a
5961002794		F Aluminum - ICP-Fusion	ug/g	98.20	< 1.00e-01	< 1.97e-03	< 1.97e-03	1.98e-04	2.04	94.60	985.0
5961002794		F Arsenic - ICP-Fusion	ug/g	103.8	< 1.00e-02	< 1.97e-03	< 1.97e-03	n/a	103.2	1.97e+03	n/a
5961002794		F Boron - ICP-Fusion	ug/g	99.08	< 5.00e-02	< 9.84e-02	< 9.84e-02	n/a	96.60	985.0	n/a
5961002794		F Barium - ICP-Fusion	ug/g	99.08	< 5.00e-02	< 9.84e-02	< 9.84e-02	n/a	95.60	985.0	n/a
5961002794		F Beryllium - ICP-Fusion	ug/g	101.8	< 5.00e-03	< 98.50	< 98.50	n/a	100.7	98.50	n/a
5961002794		F Bismuth - ICP-Fusion	ug/g	101.4	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	99.30	1.97e+03	n/a
5961002794		F Calcium - ICP-Fusion	ug/g	99.80	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	102.7	1.97e+03	n/a
5961002794		F Cadmium - ICP-Fusion	ug/g	99.40	< 5.00e-03	< 98.50	< 9.84e-01	n/a	97.60	98.50	n/a
5961002794		F Cerium - ICP-Fusion	ug/g	102.2	< 1.00e-02	< 3.38e+03	< 1.97e-03	n/a	99.20	197.0	n/a
5961002794		F Cobalt - ICP-Fusion	ug/g	101.0	< 1.00e-02	< 3.38e+03	< 1.97e-02	3.36e+03	1.19	99.20	197.0
5961002794		F Chromium - ICP-Fusion	ug/g	104.6	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	100.5	197.0	n/a
5961002794		F Copper - ICP-Fusion	ug/g	100.6	< 5.00e-02	< 9.85e-02	< 9.84e-02	n/a	100.7	985.0	n/a
5961002794		F Iron - ICP-Fusion	ug/g	98.40	< 5.00e-01	6.61e+06	n/a	n/a	n/a	9.85e+03	n/a
5961002794		F Potassium - ICP-Fusion	ug/g	100.4	< 5.00e-02	< 9.85e-02	< 9.84e-02	n/a	98.00	985.0	n/a
5961002794		F Lithium - ICP-Fusion	ug/g	101.6	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	96.10	197.0	n/a
5961002794		F Magnesium - ICP-Fusion	ug/g	98.00	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	96.30	1.97e+03	n/a
5961002794		F Manganese - ICP-Fusion	ug/g	97.80	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	94.40	197.0	n/a
5961002794		F Molybdenum - ICP-Fusion	ug/g	100.2	< 5.00e-02	< 9.85e-02	< 9.84e-02	n/a	98.30	985.0	n/a
5961002794		F Sodium - ICP-Fusion	ug/g	100.0	< 2.450	2.64e+05	2.78e+05	2.71e+05	5.17	110.8	1.97e+03
5961002794		F Neodymium - ICP-Fusion	ug/g	101.2	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	98.80	1.97e+03	n/a
5961002794		F Nickel - ICP-Fusion	ug/g	99.00	< 2.00e-02	2.13e+03	2.51e+03	2.32e+03	16.4	97.50	394.0
5961002794		F Phosphorus - ICP-Fusion	ug/g	105.6	< 2.00e-01	< 3.94e+03	< 3.94e+03	n/a	97.80	1.97e+03	n/a
5961002794		F Lead - ICP-Fusion	ug/g	96.80	< 1.00e-01	1.24e+04	1.24e+04	n/a	97.80	1.97e+03	n/a
5961002794		F Sulfur - ICP-Fusion	ug/g	95.80	< 6.00e-02	< 1.97e-03	< 1.18e-03	n/a	93.70	1.18e+03	n/a
5961002794		F Antimony - ICP-Fusion	ug/g	98.80	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	101.0	1.97e+03	n/a
5961002794		F Silicon - ICP-Fusion	ug/g	97.40	< 5.00e-02	< 9.85e-02	< 9.84e-02	n/a	96.30	985.0	n/a
5961002794		F Samarium - ICP-Fusion	ug/g	98.60	< 1.00e-01	< 1.97e-03	< 1.97e-03	n/a	94.90	1.97e+03	n/a
5961002794		F Strontium - ICP-Fusion	ug/g	99.40	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	96.10	197.0	n/a
5961002794		F Titanium - ICP-Fusion	ug/g	98.40	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	96.10	197.0	n/a
5961002794		F Thallium - ICP-Fusion	ug/g	97.00	< 2.00e-01	< 3.94e+03	< 3.94e+03	n/a	92.40	3.94e+03	n/a
5961002794		F Uranium - ICP-Fusion	ug/g	96.40	< 5.00e-01	< 9.85e-02	< 9.84e-02	n/a	98.65	9.85e+03	n/a
5961002794		F Vanadium - ICP-Fusion	ug/g	100.2	< 5.00e-02	< 9.85e-02	< 9.84e-02	n/a	97.40	985.0	n/a
5961002794		F Zinc - ICP-Fusion	ug/g	100.0	< 1.40e-02	4.11e+02	449.0	430.0	8.84	98.40	197.0
5961002794		F Zirconium - ICP-Fusion	ug/g	98.40	< 1.00e-02	< 1.97e-02	< 1.97e-02	n/a	95.90	197.0	n/a

CORE NUMBER: 144
SEGMENT #: 5

Sample#	RAP	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5961002794	F	Cobalt-137 by GEA	uCi/g	103.7	< 4.44e-02	< 1.47e-01	< 1.44e-01	n/a	n/a	n/a	1.47e-01	n/a
5961002794	F	Cesium-137 by GEA	uCi/g	101.0	< 2.62e-01	< 2.05e+02	< 2.11e-01	208.1	2.88	n/a	5.32e-01	1.05
5961002794	F	Europium-154 by GEA	uCi/g	n/a	< 3.36e-01	< 5.32e-01	< 4.36e-01	n/a	n/a	n/a	n/a	n/a
5961002794	F	Europium-155 by GEA	uCi/g	n/a	< 2.93e-01	< 1.133	< 1.15e-01	n/a	n/a	n/a	2.103	n/a
5961002794	F	Americium-241 by GEA	uCi/g	n/a	< 1.68e-01	< 2.910	< 2.94e-01	n/a	n/a	n/a	2.990	n/a
5961002801	A	Silver - ICP-Acid Digest	ug/g	79.20	< 1.00e-02	< 8.990	< 8.80e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Aluminum - ICP-Acid Digest	ug/g	65.60	1.32e-01	1.71e+04	1.81e+04	1.76e+04	5.68	n/a	43.00	n/a
5961002801	A	Arsenic - ICP-Acid Digest	ug/g	65.20	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Boron - ICP-Acid Digest	ug/g	97.80	6.27e-02	1.03e+02	1.18e-01	110.3	13.6	n/a	43.00	n/a
5961002801	A	Barium - ICP-Acid Digest	ug/g	85.00	< 3.00e-02	< 44.90	< 4.40e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Beryllium - ICP-Acid Digest	ug/g	92.60	< 1.00e-03	< 4.490	< 4.40e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Bismuth - ICP-Acid Digest	ug/g	83.20	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Calcium - ICP-Acid Digest	ug/g	92.80	3.70e-01	3.43e+02	3.15e-01	329.0	8.51	n/a	89.90	n/a
5961002801	A	Cadmium - ICP-Acid Digest	ug/g	84.00	< 3.00e-03	< 8.000	< 8.440	8.220	5.35	n/a	43.00	n/a
5961002801	A	Cerium - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Cobalt - ICP-Acid Digest	ug/g	85.60	< 2.00e-02	< 18.00	< 1.76e-01	n/a	n/a	n/a	18.00	n/a
5961002801	A	Chromium - ICP-Acid Digest	ug/g	84.60	1.10e-02	2.79e+03	3.03e+03	2.91e+03	8.25	n/a	89.90	n/a
5961002801	A	Copper - ICP-Acid Digest	ug/g	81.60	1.60e-02	1.00e+02	10.40	10.35	2.84	n/a	43.00	n/a
5961002801	A	Iron - ICP-Acid Digest	ug/g	94.60	8.20e-02	5.86e+02	5.31e-01	515.5	9.01	n/a	43.00	n/a
5961002801	A	Lanthanum - ICP-Acid Digest	ug/g	86.20	< 3.00e-01	< 44.90	< 4.40e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Lithium - ICP-Acid Digest	ug/g	84.40	< 1.00e-02	< 8.990	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Magnesium - ICP-Acid Digest	ug/g	82.00	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Manganese - ICP-Acid Digest	ug/g	84.80	< 3.00e-02	< 49.70	< 180.0	175.0	5.71	n/a	43.00	n/a
5961002801	A	Molybdenum - ICP-Acid Digest	ug/g	83.80	< 3.00e-02	< 49.70	< 180.0	175.0	5.71	n/a	43.00	n/a
5961002801	A	Sodium - ICP-Acid Digest	ug/g	102.0	9.57e-01	1.93e+05	2.01e+05	1.97e+05	4.06	n/a	43.00	n/a
5961002801	A	Neodymium - ICP-Acid Digest	ug/g	88.20	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Nickel - ICP-Acid Digest	ug/g	86.00	< 2.00e-02	1.23e+02	1.25e-01	124.0	1.61	n/a	18.00	n/a
5961002801	A	Phosphorus - ICP-Acid Digest	ug/g	88.00	< 2.00e-02	2.47e+02	3.16e+03	1.92e+03	56.0	n/a	180.0	n/a
5961002801	A	Lead - ICP-Acid Digest	ug/g	83.60	< 1.00e-01	< 89.90	< 98.10	n/a	n/a	n/a	89.90	n/a
5961002801	A	Sulfur - ICP-Acid Digest	ug/g	85.00	< 1.00e-01	1.07e+04	1.12e+04	1.10e+04	4.37	n/a	89.90	n/a
5961002801	A	Antimony - ICP-Acid Digest	ug/g	84.60	< 6.00e-02	< 33.90	< 3.28e-01	n/a	n/a	n/a	53.90	n/a
5961002801	A	Selenium - ICP-Acid Digest	ug/g	84.20	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Silicon - ICP-Acid Digest	ug/g	140.4	1.820	< 89.60	< 176.0	132.8	65.1	n/a	43.00	n/a
5961002801	A	Samarium - ICP-Acid Digest	ug/g	85.80	< 1.00e-01	< 89.90	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Strontium - ICP-Acid Digest	ug/g	84.60	< 1.00e-02	< 8.990	< 8.80e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Titanium - ICP-Acid Digest	ug/g	79.00	< 1.00e-02	< 8.990	< 8.90e-01	n/a	n/a	n/a	89.90	n/a
5961002801	A	Thallium - ICP-Acid Digest	ug/g	80.60	< 2.00e-01	< 1.68e+02	< 1.78e-01	n/a	n/a	n/a	180.0	n/a
5961002801	A	Uranium - ICP-Acid Digest	ug/g	83.20	< 3.00e-01	< 4.47e+02	< 4.40e-01	n/a	n/a	n/a	449.0	n/a
5961002801	A	Vanadium - ICP-Acid Digest	ug/g	83.80	< 3.00e-02	< 44.70	< 44.0e-01	n/a	n/a	n/a	43.00	n/a
5961002801	A	Zinc - ICP-Acid Digest	ug/g	84.40	< 2.00e-02	< 18.00	< 15.00	16.20	17.4	n/a	43.00	n/a
5961002801	A	Zirconium - ICP-Acid Digest	ug/g	91.00	< 1.00e-02	< 12.70	< 12.50	12.60	1.59	n/a	89.90	n/a
5961002807	U	Fluoride - IC-Dioxex 40001/4500	ug/g	104.6	< 1.00e-02	< 21e+02	< 21e+02	n/a	n/a	n/a	120.9	n/a
5961002807	U	Chloride - IC-Dioxex 40001/4500	ug/g	98.10	< 1.00e-02	< 31e+03	< 31e+03	5.62e+03	3.02	n/a	158.1	n/a
5961002807	U	Nitrite - IC - Dioxex 40001/4500	ug/g	93.21	< 1.07e-01	< 6.7e+04	< 6.1e+04	5.15e+04	1.90	n/a	995.0	n/a
5961002807	U	Bromide by Ion Chromatograph	ug/g	97.55	< 1.68e-01	< 1.7e+04	< 1.21e-01	n/a	n/a	n/a	117e+03	n/a
5961002807	U	Nitrate by IC-Dioxex40001/4500	ug/g	97.24	< 1.40e-01	< 1.72e+03	< 1.6e+03	1.54e+03	2.54	n/a	110e+03	n/a
5961002807	U	Phosphate - IC-Dioxex 40001/4500	ug/g	98.25	< 1.19e-01	< 3.1e+03	< 3.1e+03	3.81e+03	3.42	n/a	110e+03	n/a
5961002807	U	Sulfate by IC - Dioxex40001/4500	ug/g	97.68	< 1.36e-01	< 3.4e+04	< 3.8e+04	3.70e+04	8.65	n/a	124e+03	n/a
5961002807	U	Oxalate by IC - Dioxex 40001	ug/g	103.0	< 1.05e-01	< 9.42e+03	< 1.05e+04	9.96e+03	10.8	n/a	976.5	n/a

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A-0002-3

I. Lower Half of Segment: I. Lower Half of Segment

Sample#	R#	Analyte	Unit	Standard X	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961002778	1	DSC Exotherm using Mettler	Joules/g	113.2	n/a	1.39e+02	99.50	99.25	80.1	n/a	n/a
S961002778	1	DSC Exotherm using Mettler	Joules/g	107.6	n/a	71.40	99.40	82.40	26.7	n/a	n/a
S961002778	1	DSC Exotherm DRY Calculated	Joules/g DRY	n/a	n/a	2.26e+02	96.81	161.5	80.1	n/a	n/a
S961002778	1	DSC Exotherm DRY Calculated	Joules/g DRY	n/a	n/a	1.16e+02	152.0	134.0	26.9	n/a	n/a
S961002778	1	% Water by IGA using Mettler	%	99.39	n/a	40.04	38.54	38.54	7.78	n/a	n/a
S961002778	1	TIC by Acid/Coulometry	ug/g	98.84	1.200	8.82e+03	8.83e+03	8.82e+03	0.11	102.0	5.000
S961002778	1	IOC by Persulfate/Coulometry	ug/g	90.00	4.00e-01	9.13e+03	8.57e+03	8.85e+03	6.33	101.0	40.00
S961002778	1	Bulk Density of Sample	g/mL	n/a	n/a	1.770	n/a	n/a	n/a	5.00e-01	n/a
S961002778	1	Si ICP - ICP-Fusion	ug/g	98.80	<1.00e-02	<2.01e-02	<1.93e-02	n/a	18.00	201.0	n/a
S961002778	1	Aluminum - ICP-Fusion	ug/g	98.80	<5.00e-02	1.82e+04	1.75e+04	1.78e+04	3.92	97.30	1.01e+03
S961002778	1	Aluminum - ICP-Fusion	ug/g	103.6	<1.00e-01	<2.01e-03	<1.93e-03	n/a	105.4	2.01e+03	n/a
S961002778	1	Arsenic - ICP-Fusion	ug/g	103.6	<5.00e-02	<1.01e-03	<9.66e-02	n/a	97.60	1.01e+03	n/a
S961002778	1	Boron - ICP-Fusion	ug/g	99.60	<5.00e-02	<1.01e-03	<9.66e-02	n/a	97.80	1.01e+03	n/a
S961002778	1	Boron - ICP-Fusion	ug/g	104.8	<5.00e-03	<1.01e-02	<9.66e-02	n/a	102.7	101.0	n/a
S961002778	1	Barium - ICP-Fusion	ug/g	101.4	<1.00e-01	<2.01e+03	<1.93e-03	n/a	100.7	2.01e+03	n/a
S961002778	1	Barium - ICP-Fusion	ug/g	99.80	<1.00e-01	<2.01e+03	<1.93e-03	n/a	100.7	2.01e+03	n/a
S961002778	1	Calcium - ICP-Fusion	ug/g	99.40	<5.00e-03	<1.01e-02	<9.66e-02	n/a	98.50	101.0	n/a
S961002778	1	Calcium - ICP-Fusion	ug/g	102.2	<1.00e-01	<2.01e-03	<1.93e-03	n/a	103.2	2.01e+03	n/a
S961002778	1	Carbon - ICP-Fusion	ug/g	100.0	<2.00e-02	<4.03e+02	<3.87e-02	n/a	98.50	403.0	n/a
S961002778	1	Carbon - ICP-Fusion	ug/g	101.0	<1.00e-02	2.35e+03	2.24e+03	2.30e+03	4.79	100.3	201.0
S961002778	1	Chromium - ICP-Fusion	ug/g	104.6	<1.00e-02	<2.01e-02	<1.93e-02	n/a	102.0	1.01e+03	n/a
S961002778	1	Copper - ICP-Fusion	ug/g	100.6	<5.00e-02	<1.01e+03	<9.66e-02	n/a	100.7	1.01e+03	n/a
S961002778	1	Iron - ICP-Fusion	ug/g	98.40	<5.00e-01	7.11e+06	<9.66e-02	n/a	100.7	1.01e+03	n/a
S961002778	1	Iron - ICP-Fusion	ug/g	100.4	<5.00e-02	<1.01e+03	<1.93e-02	n/a	98.00	201.0	n/a
S961002778	1	Lithium - ICP-Fusion	ug/g	101.6	<1.00e-02	<2.01e+03	<1.93e-02	n/a	97.60	2.01e+03	n/a
S961002778	1	Lithium - ICP-Fusion	ug/g	98.00	<1.00e-01	<2.01e+03	<1.93e-02	n/a	95.10	2.01e+03	n/a
S961002778	1	Magnesium - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.01e+02	<1.93e-02	n/a	100.2	1.01e+03	n/a
S961002778	1	Mel Phase - ICP-Fusion	ug/g	100.2	<5.00e-02	<1.01e+03	<9.66e-02	n/a	100.2	1.01e+03	n/a
S961002778	1	Mel Phase - ICP-Fusion	ug/g	100.0	<2.450	2.64e+05	2.84e+05	2.74e+05	7.30	108.1	2.01e+03
S961002778	1	Sodium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.01e+03	<1.93e-03	n/a	101.2	2.01e+03	n/a
S961002778	1	Sodium - ICP-Fusion	ug/g	99.00	<2.00e-02	7.59e+02	1.26e+03	1.01e+03	49.6	96.50	403.0
S961002778	1	Nickel - ICP-Fusion	ug/g	105.6	<2.00e-01	4.43e+03	4.38e+03	4.40e+03	10.4	4.03e+03	n/a
S961002778	1	Nickel - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.01e+03	<1.93e-03	n/a	99.50	2.01e+03	n/a
S961002778	1	Lead - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.01e+03	<1.93e-03	n/a	99.50	2.01e+03	n/a
S961002778	1	Lead - ICP-Fusion	ug/g	95.80	<6.00e-02	<2.01e+03	<1.16e-03	n/a	96.10	2.01e+03	n/a
S961002778	1	Antimony - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.01e+03	<1.93e-03	n/a	105.6	2.01e+03	n/a
S961002778	1	Antimony - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.01e+03	<1.93e-03	n/a	95.90	1.01e+03	n/a
S961002778	1	Selenium - ICP-Fusion	ug/g	97.40	<5.00e-02	<1.01e+03	<9.66e-02	n/a	96.60	2.01e+03	n/a
S961002778	1	Selenium - ICP-Fusion	ug/g	98.60	<1.00e-01	<2.01e+03	<1.93e-03	n/a	96.60	2.01e+03	n/a
S961002778	1	Silver - ICP-Fusion	ug/g	99.40	<1.00e-02	<2.01e+02	<1.93e-02	n/a	99.30	1.01e+03	n/a
S961002778	1	Silver - ICP-Fusion	ug/g	98.40	<1.00e-02	<2.01e+02	<1.93e-02	n/a	97.80	201.0	n/a
S961002778	1	Tantalum - ICP-Fusion	ug/g	97.00	<2.00e-01	<4.03e+03	<3.87e-03	n/a	97.60	4.03e+03	n/a
S961002778	1	Tantalum - ICP-Fusion	ug/g	96.40	<5.00e-01	<1.01e+04	<9.66e-02	n/a	88.30	1.01e+04	n/a
S961002778	1	Vanadium - ICP-Fusion	ug/g	100.2	<5.00e-02	<1.01e+03	<9.66e-02	n/a	99.30	1.01e+03	n/a
S961002778	1	Vanadium - ICP-Fusion	ug/g	100.0	1.40e-02	3.71e+02	334.0	352.5	10.5	101.1	201.0
S961002778	1	Zinc - ICP-Fusion	ug/g	103.7	<8.44e-02	<2.01e+02	<1.93e-02	n/a	97.60	20e-01	n/a
S961002778	1	Zinc - ICP-Fusion	ug/g	103.7	<8.44e-02	<2.01e+02	<1.93e-02	n/a	97.60	20e-01	n/a
S961002778	1	Zirconium - ICP-Fusion	ug/g	101.0	<2.82e-01	1.91e+02	176.0	183.3	8.17	n/a	n/a
S961002778	1	Cobalt - 60 by DEA	ug/g	n/a	<3.35e-01	<3.43e-01	<4.94e-01	n/a	n/a	3.43e-01	n/a
S961002778	1	Europium-154 by DEA	ug/g	n/a	<3.35e-01	<3.43e-01	<4.94e-01	n/a	n/a	3.43e-01	n/a

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
3561002307	F	Europium-155 by GEA	uCi/g	n/a	< 0.55e-01	< 1.06e-01	< 1.06e-01	n/a	n/a	n/a	1.06e-01	n/a
3561002307	F	Americium-241 by GEA	uCi/g	n/a	< 0.68e-01	< 2.78e-01	< 2.78e-01	n/a	n/a	n/a	2.78e-01	n/a
3561002307	F	Alpha of Digested Solid	uCi/g	11.8	n/a	1.68e-01	1.67e-01	1.67e-01	0.60	n/a	1.50e-02	1.72E-01
3561002302	A	Aliver - ICP-Acid Digest	ug/g	79.20	< 1.00e-02	< 9.410	< 9.92e-01	n/a	n/a	n/a	9.410	n/a
3561002302	A	Aluminum - ICP-Acid Digest	ug/g	86.20	< 1.00e-02	1.67e+04	1.80e+04	1.80e+04	14.4	n/a	47.00	n/a
3561002302	A	Arsenic - ICP-Acid Digest	ug/g	86.20	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Boron - ICP-Acid Digest	ug/g	97.80	6.27e-01	1.21e+02	143.0	134.5	20.1	n/a	47.00	n/a
3561002302	A	Barium - ICP-Acid Digest	ug/g	85.00	< 1.00e-02	< 47.00	< 4.96e-01	n/a	n/a	n/a	47.00	n/a
3561002302	A	Beryllium - ICP-Acid Digest	ug/g	83.20	< 1.00e-03	< 47.00	< 9.92e-01	n/a	n/a	n/a	47.00	n/a
3561002302	A	Bismuth - ICP-Acid Digest	ug/g	83.20	< 1.00e-03	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Calcium - ICP-Acid Digest	ug/g	84.00	3.70e-01	2.94e+02	318.0	306.0	7.84	n/a	94.10	n/a
3561002302	A	Cadmium - ICP-Acid Digest	ug/g	84.00	< 1.00e-03	6.340	7.210	6.775	12.8	n/a	47.00	n/a
3561002302	A	Cerium - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Cobalt - ICP-Acid Digest	ug/g	85.80	< 1.00e-02	< 18.80	< 1.98e-01	n/a	n/a	n/a	18.80	n/a
3561002302	A	Chromium - ICP-Acid Digest	ug/g	84.60	1.10e-02	1.89e+03	2.06e+03	1.98e+03	8.61	n/a	94.10	n/a
3561002302	A	Copper - ICP-Acid Digest	ug/g	81.60	1.60e-02	< 9.410	9.940	7.43	n/a	n/a	47.00	n/a
3561002302	A	Potassium - ICP-Acid Digest	ug/g	94.60	8.20e-02	1.50e+02	377.0	363.5	7.43	n/a	47.00	n/a
3561002302	A	Lanthanum - ICP-Acid Digest	ug/g	86.20	< 1.00e-02	< 47.00	< 4.96e-01	n/a	n/a	n/a	47.00	n/a
3561002302	A	Lithium - ICP-Acid Digest	ug/g	84.40	< 1.00e-02	< 9.410	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Magnesium - ICP-Acid Digest	ug/g	82.00	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Manganese - ICP-Acid Digest	ug/g	84.80	< 1.00e-02	1.15e+02	121.0	118.0	5.08	n/a	94.10	n/a
3561002302	A	Molybdenum - ICP-Acid Digest	ug/g	83.80	< 1.00e-02	44.00	54.00	51.00	11.8	n/a	47.00	n/a
3561002302	A	Sodium - ICP-Acid Digest	ug/g	102.0	9.57e-01	1.77e+05	1.92e+05	1.84e+05	8.13	n/a	94.10	n/a
3561002302	A	Niobium - ICP-Acid Digest	ug/g	86.20	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Nickel - ICP-Acid Digest	ug/g	86.00	< 1.00e-02	1.04e+02	122.0	116.0	10.3	n/a	18.80	n/a
3561002302	A	Phosphorus - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 1.0e+03	1.22e+03	1.16e+03	10.3	n/a	94.10	n/a
3561002302	A	Lead - ICP-Acid Digest	ug/g	83.60	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Silver - ICP-Acid Digest	ug/g	85.00	< 1.00e-02	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Antimony - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Strontium - ICP-Acid Digest	ug/g	84.20	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Silicon - ICP-Acid Digest	ug/g	84.00	< 1.00e-02	1.83e+02	206.5	206.5	12.1	n/a	94.10	n/a
3561002302	A	Samarium - ICP-Acid Digest	ug/g	82.60	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Strontium - ICP-Acid Digest	ug/g	96.00	< 1.00e-02	< 9.410	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Tantalum - ICP-Acid Digest	ug/g	80.40	< 1.00e-01	< 1.88e+03	< 1.98e+03	n/a	n/a	n/a	188.0	n/a
3561002302	A	Thallium - ICP-Acid Digest	ug/g	83.20	< 1.00e-01	< 94.10	< 9.92e-01	n/a	n/a	n/a	94.10	n/a
3561002302	A	Uranium - ICP-Acid Digest	ug/g	83.80	< 1.00e-02	< 47.00	< 4.96e-01	n/a	n/a	n/a	47.00	n/a
3561002302	A	Vanadium - ICP-Acid Digest	ug/g	82.40	3.50e-02	31.60	35.90	28.70	19.4	n/a	94.10	n/a
3561002302	A	Zinc - ICP-Acid Digest	ug/g	91.00	< 1.00e-02	10.30	10.40	10.30	1.94	n/a	94.10	n/a
3561002308	W	Europium - ICP-Acid Digest	ug/g	100.8	< 1.30e-02	< 1.20e+02	< 1.22e+02	n/a	12.6	n/a	130.0	n/a
3561002308	W	Chromium - ICP-Acid Digest	ug/g	90.1	< 1.70e-02	5.92e+03	5.94e+03	5.43e+03	18.4	n/a	157.5	n/a
3561002308	W	Chloride - ICP-Acid Digest	ug/g	94.11	< 1.07e-01	< 5.92e+04	5.92e+04	5.92e+04	13.5	n/a	991.2	n/a
3561002308	W	Wittite - C - Dioxane 40001/4500	ug/g	94.78	< 1.26e-01	< 1.17e+03	1.19e+03	n/a	87.77	n/a	1.77e+03	n/a
3561002308	W	Wittite by Ion Chromatograph	ug/g	98.05	< 1.40e-01	3.32e+05	3.08e+05	3.20e+05	7.64	n/a	41.56	n/a
3561002308	W	Wittite by IC-Dioxane 40001/4500	ug/g	96.34	< 1.19e-01	3.25e+03	3.25e+03	3.43e+03	9.90	n/a	1.05e+03	n/a
3561002308	W	Phosphate by IC-Dioxane 40001/4500	ug/g	94.72	< 1.34e-01	1.41e+04	1.28e+04	1.35e+04	9.92	n/a	1.25e+03	n/a
3561002308	W	Sulfate by IC-Dioxane 40001/4500	ug/g	98.73	< 1.05e-01	6.68e+03	5.10e+03	5.76e+03	23.8	n/a	972.8	n/a
3561002308	W	Oxalate by IC - Dioxane 40001	ug/g	101.3	< 1.05e-01	6.68e+03	5.10e+03	5.76e+03	23.8	n/a	972.8	n/a

CORE NUMBER: 144
SEGMENT #: 6

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961002779		DSC Exotherm using Mettler	Joules/g	113.2	N/A	63.20	76.60	69.90	19.2	N/A	N/A
S961002779		DSC Exotherm DRY Calculated	Joules/g DRY	99.78	N/A	1.36e+02	148.0	148.0	19.2	N/A	N/A
S961002779		% Water by IGA using Mettler	%	98.82	1.200	55.44	55.44	52.78	10.2	N/A	N/A
S961002779		TIC by Acid/Coulometry	ug/g	90.00	4.00e-01	1.29e+04	1.29e+04	1.26e+04	4.76	N/A	5.000
S961002779		TIC by Acid/Coulometry	ug/g	90.00	4.00e-01	1.16e+04	1.12e+04	1.12e+04	0.90	N/A	40.00
S961002785		Bulk Density of Sample	g/cc	N/A	N/A	1.610	N/A	N/A	N/A	5.00e-01	N/A
S961002795		F Silver - ICP-Fusion	ug/g	98.80	<1.00e-02	<2.03e+03	<1.98e2	N/A	19.30	203.0	N/A
S961002795		F Aluminum - ICP-Fusion	ug/g	98.20	<5.00e-02	2.57e+04	2.60e+04	2.58e+04	1.16	96.40	1.02e+03
S961002795		F Arsenic - ICP-Fusion	ug/g	103.8	<1.00e-01	<2.03e+03	<1.98e3	N/A	104.9	2.03e+03	N/A
S961002795		F Boron - ICP-Fusion	ug/g	100.6	<5.00e-01	<1.02e+03	<9.91e2	N/A	99.00	1.02e+03	N/A
S961002795		F Barium - ICP-Fusion	ug/g	99.60	<5.00e-02	<1.02e+03	<9.91e2	N/A	98.50	1.02e+03	N/A
S961002795		F Beryllium - ICP-Fusion	ug/g	104.8	<5.00e-03	<1.02e+02	<9.91e2	N/A	103.2	102.0	N/A
S961002795		F Calcium - ICP-Fusion	ug/g	101.4	<1.00e-01	<2.03e+03	<1.98e3	N/A	102.2	2.03e+03	N/A
S961002795		F Cadmium - ICP-Fusion	ug/g	99.80	<1.00e-03	<1.02e+03	<1.98e3	N/A	103.7	2.03e+03	N/A
S961002795		F Cerium - ICP-Fusion	ug/g	102.2	<1.00e-01	<1.02e+02	<9.91e1	N/A	99.30	102.0	N/A
S961002795		F Cobalt - ICP-Fusion	ug/g	100.0	<2.00e-02	<4.07e+02	<3.96e2	N/A	99.30	407.0	N/A
S961002795		F Chromium - ICP-Fusion	ug/g	101.0	<1.00e-02	1.99e+03	1.93e+03	1.96e+03	3.06	203.0	N/A
S961002795		F Copper - ICP-Fusion	ug/g	104.6	<1.00e-02	<2.03e+02	<1.98e2	N/A	103.7	203.0	N/A
S961002795		F Iron - ICP-Fusion	ug/g	100.6	<5.00e-02	<1.02e+03	<9.91e2	N/A	102.7	1.02e+03	N/A
S961002795		F Potassium - ICP-Fusion	ug/g	98.40	<5.00e-01	8.42e+06	N/A	N/A	N/A	1.02e+04	N/A
S961002795		F Lanthanum - ICP-Fusion	ug/g	100.4	<5.00e-02	<1.02e+03	<9.91e2	N/A	101.2	1.02e+03	N/A
S961002795		F Lithium - ICP-Fusion	ug/g	101.6	<1.00e-01	<2.03e+02	<1.98e2	N/A	98.00	203.0	N/A
S961002795		F Magnesium - ICP-Fusion	ug/g	98.00	<1.00e-01	<2.03e+02	<1.98e3	N/A	97.80	2.03e+03	N/A
S961002795		F Manganese - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.03e+02	<1.98e2	N/A	95.90	203.0	N/A
S961002795		F Molybdenum - ICP-Fusion	ug/g	100.2	<5.00e-02	<1.02e+02	<9.91e2	N/A	N/A	1.02e+03	N/A
S961002795		F Sodium - ICP-Fusion	ug/g	100.0	<2.360	2.71e+05	2.63e+05	2.67e+05	3.00	2.03e+03	N/A
S961002795		F Strontium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.03e+03	<1.98e3	N/A	102.0	2.03e+03	N/A
S961002795		F Nickel - ICP-Fusion	ug/g	99.00	<2.33e-01	1.17e+03	6.80e+03	4.03e+03	142	97.60	407.0
S961002795		F Phosphorus - ICP-Fusion	ug/g	105.6	<2.00e-01	<4.07e+03	<3.96e3	N/A	105.2	4.07e+03	N/A
S961002795		F Lead - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.03e+03	<1.98e3	N/A	N/A	2.03e+03	N/A
S961002795		F Sulfur - ICP-Fusion	ug/g	95.80	<2.00e-02	8.40e+03	8.06e+03	8.23e+03	4.13	98.00	2.03e+03
S961002795		F Antimony - ICP-Fusion	ug/g	95.80	<1.00e-01	<2.03e+03	<1.98e3	N/A	N/A	1.02e+03	N/A
S961002795		F Selenium - ICP-Fusion	ug/g	98.80	<1.00e-01	<2.03e+03	<1.98e3	N/A	N/A	2.03e+03	N/A
S961002795		F Silicon - ICP-Fusion	ug/g	97.40	<5.00e-02	1.70e+03	7.82e+03	4.76e+03	129	99.40	1.02e+03
S961002795		F Samarium - ICP-Fusion	ug/g	98.60	<1.00e-01	<2.03e+03	<1.98e3	N/A	N/A	2.03e+03	N/A
S961002795		F Strontium - ICP-Fusion	ug/g	99.40	<1.00e-02	<2.03e+02	<1.98e2	N/A	N/A	303.0	N/A
S961002795		F Tantalum - ICP-Fusion	ug/g	98.40	<1.00e-02	<2.03e+02	<1.98e2	N/A	N/A	303.0	N/A
S961002795		F Thallium - ICP-Fusion	ug/g	97.00	<2.00e-01	<4.07e+03	<3.96e3	N/A	N/A	4.07e+03	N/A
S961002795		F Uranium - ICP-Fusion	ug/g	96.40	<5.00e-01	<1.02e+04	<9.91e2	N/A	N/A	1.02e+04	N/A
S961002795		F Vanadium - ICP-Fusion	ug/g	100.2	<5.00e-02	<1.02e+03	<9.91e2	N/A	N/A	1.02e+03	N/A
S961002795		F Zinc - ICP-Fusion	ug/g	100.0	<1.00e-02	1.17e+03	203.0	686.2	141	98.90	203.0
S961002795		F Zirconium - ICP-Fusion	ug/g	96.40	<1.00e-02	<2.03e+02	<1.98e2	N/A	N/A	203.0	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S561002795	F	Cobalt-60 by GEA	uCi/g	106.3	<2.19e-01	<2.12e-01	<2.12e-01	N/A	N/A	N/A	2.12e-01	N/A
S561002795	F	Cesium-137 by GEA	uCi/g	104.2	<2.05e-01	<2.17e-02	<2.05e-01	259.9	8.46	N/A	8.19e-01	0.980
S561002795	F	Europium-154 by GEA	uCi/g	N/A	<6.98e-01	<8.19e-01	<7.70e-01	N/A	N/A	N/A	N/A	N/A
S561002795	F	Europium-155 by GEA	uCi/g	N/A	<6.07e-01	<1.035	<1.016	N/A	N/A	N/A	5.63e-01	N/A
S561002795	F	Americium-241 by GEA	uCi/g	N/A	<3.14e-01	<5.63e-01	<5.47e-01	N/A	N/A	N/A	5.05e-01	N/A
S561002803	A	Aluminum - ICP-Acid Digest	u/g	79.20	<1.00e-02	<2.28e-04	<9.29e-01	2.28e-04	0.44	N/A	4.50	N/A
S561002803	A	Aluminum - ICP-Acid Digest	u/g	86.60	<1.32e-01	<2.28e-04	<2.29e-04	N/A	N/A	N/A	4.50	N/A
S561002803	A	Arsenic - ICP-Acid Digest	u/g	97.80	<1.00e-01	<9.50	<9.29e-01	126.5	2.11	N/A	4.50	N/A
S561002803	A	Boron - ICP-Acid Digest	u/g	97.80	<6.27e-01	<1.22e-02	<1.31e-01	N/A	N/A	N/A	4.50	N/A
S561002803	A	Boron - ICP-Acid Digest	u/g	85.00	<5.00e-02	<4.50	<4.64e-01	N/A	N/A	N/A	4.50	N/A
S561002803	A	Beryllium - ICP-Acid Digest	u/g	92.60	<5.00e-03	<4.530	<4.64e-01	N/A	N/A	N/A	4.50	N/A
S561002803	A	Bismuth - ICP-Acid Digest	u/g	92.60	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Calcium - ICP-Acid Digest	u/g	92.80	<3.70e-01	<3.39e-02	<2.90e-01	314.5	15.6	N/A	90.50	N/A
S561002803	A	Cadmium - ICP-Acid Digest	u/g	84.00	<5.00e-03	<6.660	<5.930	6.285	11.6	N/A	4.530	N/A
S561002803	A	Cerium - ICP-Acid Digest	u/g	88.00	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Cobalt - ICP-Acid Digest	u/g	85.60	<2.00e-02	<18.10	<1.86e-01	1.28e+03	7.06	N/A	9.050	N/A
S561002803	A	Chromium - ICP-Acid Digest	u/g	84.60	<1.00e-02	<2.35e+03	<1.32e+03	9.430	2.76	N/A	9.050	N/A
S561002803	A	Copper - ICP-Acid Digest	u/g	81.60	<1.60e-02	<9.560	<9.300	284.0	5.63	N/A	4.530	N/A
S561002803	A	Iron - ICP-Acid Digest	u/g	90.60	<8.20e-02	<2.76e-02	<2.92e-01	2.59e+03	1.57	N/A	4.50	N/A
S561002803	A	Potassium - ICP-Acid Digest	u/g	94.60	<5.00e-01	<2.53e+03	<2.57e+03	N/A	N/A	N/A	4.50	N/A
S561002803	A	Lanthanum - ICP-Acid Digest	u/g	86.20	<5.00e-02	<4.50	<4.64e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Lithium - ICP-Acid Digest	u/g	84.40	<1.00e-02	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Magnesium - ICP-Acid Digest	u/g	82.00	<1.00e-02	<9.50	<9.29e-01	N/A	N/A	N/A	9.050	N/A
S561002803	A	Manganese - ICP-Acid Digest	u/g	84.80	<1.00e-02	<82.60	<86.30	84.45	4.38	N/A	4.50	N/A
S561002803	A	Molybdenum - ICP-Acid Digest	u/g	83.80	<5.00e-02	<63.60	<65.90	64.75	3.55	N/A	90.50	N/A
S561002803	A	Sodium - ICP-Acid Digest	u/g	102.0	<9.57e-01	<1.66e+05	<1.68e+05	1.67e+05	1.20	N/A	90.50	N/A
S561002803	A	Niobium - ICP-Acid Digest	u/g	88.20	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Nickel - ICP-Acid Digest	u/g	86.00	<2.00e-02	<1.66e-02	<1.19e-01	117.5	2.55	N/A	18.10	N/A
S561002803	A	Phosphorus - ICP-Acid Digest	u/g	88.00	<2.00e-01	<1.22e+03	<1.34e+03	1.28e+03	9.38	N/A	181.0	N/A
S561002803	A	Lead - ICP-Acid Digest	u/g	83.60	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Antimony - ICP-Acid Digest	u/g	84.60	<1.00e-02	<54.30	<5.71e-01	5.62e+03	4.80	N/A	54.30	N/A
S561002803	A	Selenium - ICP-Acid Digest	u/g	84.20	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Silicon - ICP-Acid Digest	u/g	140.4	<1.820	<1.24e+02	<150.0	137.0	19.0	N/A	45.30	N/A
S561002803	A	Samarium - ICP-Acid Digest	u/g	85.00	<1.00e-01	<9.50	<9.29e-01	N/A	N/A	N/A	90.50	N/A
S561002803	A	Strontium - ICP-Acid Digest	u/g	84.60	<1.00e-02	<9.050	<9.29e-01	N/A	N/A	N/A	9.050	N/A
S561002803	A	Titanium - ICP-Acid Digest	u/g	79.00	<1.00e-02	<9.050	<9.29e-01	N/A	N/A	N/A	181.0	N/A
S561002803	A	Thallium - ICP-Acid Digest	u/g	80.60	<2.00e-01	<1.81e+02	<1.86e-01	N/A	N/A	N/A	453.0	N/A
S561002803	A	Uranium - ICP-Acid Digest	u/g	83.20	<5.00e-01	<4.530	<4.64e-01	N/A	N/A	N/A	4.50	N/A
S561002803	A	Vanadium - ICP-Acid Digest	u/g	83.80	<5.00e-02	<4.50	<4.64e-01	N/A	N/A	N/A	9.050	N/A
S561002803	A	Zinc - ICP-Acid Digest	u/g	82.40	<2.50e-02	<16.70	<19.60	18.15	16.0	N/A	4.50	N/A
S561002803	A	Zirconium - ICP-Acid Digest	u/g	91.00	<1.00e-02	<9.050	<9.29e-01	N/A	N/A	N/A	9.050	N/A
S561002809	F	Fluoride-IC-Dioxex 40001/4500	u/g	100.8	<1.30e-02	<1.21e+02	<1.18e-02	N/A	N/A	N/A	120.7	N/A
S561002809	F	Chloride-IC-Dioxex 40001/4500	u/g	101.1	<1.70e-02	<7.42e+03	<7.35e+03	7.38e+03	0.95	N/A	157.8	N/A
S561002809	F	Nitrite-IC - Dioxex 40001/4500	u/g	94.11	<1.07e-01	<8.65e+04	<8.31e+04	8.48e+04	4.01	N/A	993.5	N/A
S561002809	F	Bromide by Ion Chromatograph	u/g	94.78	<2.6e-01	<1.17e+03	<1.14e-01	N/A	N/A	N/A	1.17e+03	N/A
S561002809	F	Nitrate by IC-Dioxex40001/4500	u/g	98.05	<4.00e-01	<1.31e+05	<1.43e+05	1.37e+05	8.76	N/A	1.30e+03	N/A
S561002809	F	Sulfate by IC-Dioxex 40001/4500	u/g	96.34	<1.19e-01	<3.76e+03	<1.88e+04	7.78e+03	103	N/A	1.10e+03	N/A
S561002809	F	Sulfate by IC-Dioxex40001/4500	u/g	98.73	<1.36e-01	<2.24e+04	<2.19e+04	2.22e+04	2.26	N/A	1.26e+03	N/A
S561002809	F	Oxalate by IC - Dioxex 40001	u/g	101.6	<1.05e-01	<7.54e+03	<7.16e+03	7.35e+03	5.17	N/A	975.1	N/A

L Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk	Rec %	Det Limit	Count Err%
S961002760		DSC Exotherm using Mettler	Joules/g	110.7	n/a	14.40	19.80	17.10	31.6	n/a	n/a	n/a	n/a
S961002760		DSC Exotherm Dry	Joules/g Dry	n/a	n/a	25.94	35.67	30.80	31.6	n/a	n/a	n/a	n/a
S961002760		% Water by TGA using Mettler	%	99.49	n/a	44.90	44.08	44.49	1.84	n/a	n/a	n/a	n/a
S961002760		TIC by Acid/Coulometry	ug/g	98.84	1.200	8.27e+03	7.57e+03	7.92e+03	8.84	n/a	n/a	5.000	n/a
S961002760		TOC by Persulfate/Coulometry	ug/g	90.00	4.00e-01	7.92e+03	7.43e+03	7.68e+03	6.38	n/a	n/a	40.00	n/a
S961002768		Bulk Density of Sample	g/mL	n/a	n/a	1.670	n/a	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961002768		F Silver - ICP-Fusion	ug/g	98.80	<1.00e-02	<1.97e-02	<1.99e-02	n/a	n/a	n/a	18.10	197.0	n/a
S961002768		F Aluminum - ICP-Fusion	ug/g	98.20	<5.00e-02	1.79e+04	1.77e+04	1.78e+04	1.12	n/a	92.60	983.0	n/a
S961002768		F Arsenic - ICP-Fusion	ug/g	103.8	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	104.6	1.97e+03	n/a	n/a
S961002768		F Boron - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.83e+02	<9.95e+02	n/a	n/a	95.90	983.0	n/a	n/a
S961002768		F Barium - ICP-Fusion	ug/g	99.60	<5.00e-02	<9.83e+02	<9.95e+02	n/a	n/a	95.40	983.0	n/a	n/a
S961002768		F Beryllium - ICP-Fusion	ug/g	104.8	<5.00e-03	<9.83e+02	<9.95e+02	n/a	n/a	101.2	98.30	n/a	n/a
S961002768		F Bismuth - ICP-Fusion	ug/g	101.4	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	101.7	1.97e+03	n/a	n/a
S961002768		F Calcium - ICP-Fusion	ug/g	99.80	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	101.7	1.97e+03	n/a	n/a
S961002768		F Cadmium - ICP-Fusion	ug/g	99.40	<5.00e-03	<9.83e+02	<9.95e+02	n/a	n/a	97.60	98.30	n/a	n/a
S961002768		F Cerium - ICP-Fusion	ug/g	102.2	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	100.0	1.97e+03	n/a	n/a
S961002768		F Cobalt - ICP-Fusion	ug/g	100.0	<2.00e-02	<3.93e+02	<3.98e+02	n/a	n/a	97.10	393.0	n/a	n/a
S961002768		F Chromium - ICP-Fusion	ug/g	101.0	<1.00e-02	1.16e+03	1.28e+03	1.22e+03	9.84	n/a	99.20	197.0	n/a
S961002768		F Copper - ICP-Fusion	ug/g	104.6	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	100.5	983.0	n/a	n/a
S961002768		F Iron - ICP-Fusion	ug/g	100.6	<5.00e-02	<9.83e+02	<9.95e+02	n/a	n/a	98.00	983.0	n/a	n/a
S961002768		F Potassium - ICP-Fusion	ug/g	98.40	<5.00e-01	9.25e+06	n/a	n/a	n/a	98.00	983.0	n/a	n/a
S961002768		F Lanthanum - ICP-Fusion	ug/g	100.4	<5.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	94.60	197.0	n/a	n/a
S961002768		F Lithium - ICP-Fusion	ug/g	101.6	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	95.60	1.97e+03	n/a	n/a
S961002768		F Magnesium - ICP-Fusion	ug/g	98.00	<1.00e-01	<1.97e+02	<1.99e+02	n/a	n/a	95.60	1.97e+03	n/a	n/a
S961002768		F Manganese - ICP-Fusion	ug/g	97.80	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	95.90	197.0	n/a	n/a
S961002768		F Molybdenum - ICP-Fusion	ug/g	100.2	<5.00e-02	<9.83e+02	<9.95e+02	n/a	n/a	99.00	983.0	n/a	n/a
S961002768		F Sodium - ICP-Fusion	ug/g	100.0	2.360	2.72e+05	2.79e+05	2.74e+05	1.10	n/a	64.60	1.97e+03	n/a
S961002768		F Neodymium - ICP-Fusion	ug/g	101.2	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	98.50	1.97e+03	n/a	n/a
S961002768		F Nickel - ICP-Fusion	ug/g	99.00	2.33e-01	1.16e+03	6.69e+03	6.92e+03	6.79	n/a	95.80	393.0	n/a
S961002768		F Phosphorus - ICP-Fusion	ug/g	105.6	<2.00e-01	<3.93e+03	<3.98e+03	n/a	n/a	108.0	3.93e+03	n/a	n/a
S961002768		F Lead - ICP-Fusion	ug/g	98.80	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	98.50	1.97e+03	n/a	n/a
S961002768		F Sulfur - ICP-Fusion	ug/g	98.80	<1.00e-01	5.17e+03	5.11e+03	5.24e+03	4.96	n/a	94.40	1.97e+03	n/a
S961002768		F Antimony - ICP-Fusion	ug/g	95.80	<6.00e-02	<1.19e+03	<1.19e+03	n/a	n/a	95.10	1.8e+03	n/a	n/a
S961002768		F Selenium - ICP-Fusion	ug/g	98.80	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	105.9	1.97e+03	n/a	n/a
S961002768		F Silicon - ICP-Fusion	ug/g	97.40	<5.00e-02	2.32e+03	<9.95e+02	n/a	n/a	97.00	983.0	n/a	n/a
S961002768		F Smauerium - ICP-Fusion	ug/g	96.60	<1.00e-01	<1.97e+03	<1.99e+03	n/a	n/a	95.10	1.97e+03	n/a	n/a
S961002768		F Strontium - ICP-Fusion	ug/g	99.40	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	96.80	197.0	n/a	n/a
S961002768		F Tantalum - ICP-Fusion	ug/g	98.40	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	95.60	197.0	n/a	n/a
S961002768		F Thallium - ICP-Fusion	ug/g	97.00	<2.00e-01	<3.93e+03	<3.98e+03	n/a	n/a	94.40	3.93e+03	n/a	n/a
S961002768		F Uranium - ICP-Fusion	ug/g	96.40	<5.00e-01	<9.83e+03	<9.95e+03	n/a	n/a	97.05	9.83e+03	n/a	n/a
S961002768		F Vanadium - ICP-Fusion	ug/g	100.2	<5.00e-02	<9.83e+02	<9.95e+02	n/a	n/a	88.30	983.0	n/a	n/a
S961002768		F Zinc - ICP-Fusion	ug/g	100.0	1.10e-02	3.10e+03	743.0	1.92e+03	125	n/a	84.30	197.0	n/a
S961002768		F Zirconium - ICP-Fusion	ug/g	98.40	<1.00e-02	<1.97e+02	<1.99e+02	n/a	n/a	95.90	197.0	n/a	n/a
S961002768		F Cobalt-60 by GEA	uCi/g	106.3	<2.19e-01	<2.06e-01	<2.25e-01	189.2	1.58	n/a	2.06e-01	n/a	1.15
S961002768		F Cesium-137 by GEA	uCi/g	n/a	<6.98e-01	<7.16e-01	<8.37e-01	n/a	n/a	n/a	7.16e-01	n/a	n/a
S961002768		F Europium-154 by GEA	uCi/g	n/a	<6.07e-01	<9.08e-01	<9.16e-01	n/a	n/a	n/a	9.08e-01	n/a	n/a
S961002768		F Europium-155 by GEA	uCi/g	n/a	<6.07e-01	<9.08e-01	<9.16e-01	n/a	n/a	n/a	9.08e-01	n/a	n/a
S961002768		F Americium-241 by GEA	uCi/g	n/a	<3.14e-01	<4.78e-01	<4.92e-01	n/a	n/a	n/a	4.78e-01	n/a	n/a

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err#
S9610022804	F	Alpha of Digested Solid	uCi/g	109.4	N/A	8.49e-02	8.18e-02	8.34e-02	3.72	92.76	1.00e-02	2.07E+01
S9610022804	A	Silver - ICP-Acid Digest	ug/g	79.20	<1.00e-02	9.360	<9.06e0			84.60	9.370	N/A
S9610022804	A	Aluminum - ICP-Acid Digest	ug/g	86.60	1.32e-01	1.51e+04	1.62e+04	1.56e+04	7.03	76.58	46.80	N/A
S9610022804	A	Arsenic - ICP-Acid Digest	ug/g	86.20	<1.00e-01	93.61	<9.06e1			89.80	93.60	N/A
S9610022804	A	Boron - ICP-Acid Digest	ug/g	97.80	6.27e-01	98.10	720.0	109.0	20.1	88.52	46.80	N/A
S9610022804	A	Barium - ICP-Acid Digest	ug/g	85.00	<5.00e-02	<4.680	<4.53e0			91.00	46.80	N/A
S9610022804	A	Beryllium - ICP-Acid Digest	ug/g	92.60	<5.00e-03	6.580	<9.06e0			91.40	4.580	N/A
S9610022804	A	Bismuth - ICP-Acid Digest	ug/g	83.20	<1.00e-01	3.91e02	<9.06e2			91.40	93.60	N/A
S9610022804	A	Calcium - ICP-Acid Digest	ug/g	92.80	3.70e-01	3.01e02	309.0	305.0	2.62	88.42	93.60	N/A
S9610022804	A	Cadmium - ICP-Acid Digest	ug/g	84.00	<5.00e-03	5.570	4.750	5.160	15.9	88.00	4.580	N/A
S9610022804	A	Cerium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	<93.60	<9.06e1			91.40	93.60	N/A
S9610022804	A	Cobalt - ICP-Acid Digest	ug/g	85.60	<2.00e-02	18.70	<1.81e1			90.20	18.70	N/A
S9610022804	A	Chromium - ICP-Acid Digest	ug/g	81.60	1.40e-02	1.07e+03	969.0	1.02e+03	9.91	78.02	9.370	N/A
S9610022804	A	Copper - ICP-Acid Digest	ug/g	90.60	6.20e-02	2.68e02	<9.06e2			88.20	9.370	N/A
S9610022804	A	Potassium - ICP-Acid Digest	ug/g	94.60	<5.00e-01	1.74e+03	1.85e+03	1.80e+03	6.13	85.80	46.80	N/A
S9610022804	A	Lanthanum - ICP-Acid Digest	ug/g	86.20	<1.00e-02	<4.680	<9.06e1			85.20	93.60	N/A
S9610022804	A	Lithium - ICP-Acid Digest	ug/g	84.00	<1.00e-02	<93.60	<9.06e1			87.20	46.80	N/A
S9610022804	A	Magnesium - ICP-Acid Digest	ug/g	82.00	<1.00e-01	<93.60	<9.06e1			85.20	93.60	N/A
S9610022804	A	Manganese - ICP-Acid Digest	ug/g	84.80	<1.00e-02	<46.80	<4.680			88.60	46.80	N/A
S9610022804	A	Molybdenum - ICP-Acid Digest	ug/g	83.80	<5.00e-02	<46.80	<4.680			85.20	93.60	N/A
S9610022804	A	Sodium - ICP-Acid Digest	ug/g	102.0	9.57e-01	1.88e+05	1.90e+05	1.89e+05	1.06	127.6	93.60	N/A
S9610022804	A	Neophium - ICP-Acid Digest	ug/g	88.20	<1.00e-01	<81.30	<9.06e1			94.40	93.60	N/A
S9610022804	A	Nickel - ICP-Acid Digest	ug/g	86.00	<2.00e-02	1.84e+03	1.20e+03	1.52e+03	42.1	33.42	18.70	N/A
S9610022804	A	Phosphorus - ICP-Acid Digest	ug/g	88.00	<2.00e-01	<93.60	<9.06e1			92.40	93.60	N/A
S9610022804	A	Lead - ICP-Acid Digest	ug/g	83.60	<1.00e-01	<56.20	<5.44e1			90.40	56.20	N/A
S9610022804	A	Sulfur - ICP-Acid Digest	ug/g	85.00	<1.00e-02	<4.27e+02	<4.30e+03			88.02	93.60	N/A
S9610022804	A	Antimony - ICP-Acid Digest	ug/g	84.60	<6.00e-02	<56.20	<5.44e1			90.40	56.20	N/A
S9610022804	A	Selenium - ICP-Acid Digest	ug/g	84.20	<1.00e-01	<93.60	<9.06e1			83.60	93.60	N/A
S9610022804	A	Silicon - ICP-Acid Digest	ug/g	140.4	1.820	1.46e+02	191.0	168.5	26.7	92.96	46.80	N/A
S9610022804	A	Samarium - ICP-Acid Digest	ug/g	85.80	<1.00e-01	<93.60	<9.06e1			91.80	93.60	N/A
S9610022804	A	Strontium - ICP-Acid Digest	ug/g	84.60	<1.00e-02	<9.360	<9.06e0			81.00	9.370	N/A
S9610022804	A	Titanium - ICP-Acid Digest	ug/g	79.00	<1.00e-02	<9.360	<9.06e0			83.20	9.370	N/A
S9610022804	A	Thallium - ICP-Acid Digest	ug/g	80.60	<2.00e-01	<1.87e+02	<1.81e2			77.60	187.0	N/A
S9610022804	A	Uranium - ICP-Acid Digest	ug/g	83.20	<5.00e-01	<4.68e+02	<4.53e2			89.30	46.80	N/A
S9610022804	A	Vanadium - ICP-Acid Digest	ug/g	83.80	<5.00e-02	<46.80	<4.53e1			88.00	46.80	N/A
S9610022804	A	Zinc - ICP-Acid Digest	ug/g	82.40	<2.50e-02	29.70	13.80	21.75	73.1	86.02	9.370	N/A
S9610022804	A	Zirconium - ICP-Acid Digest	ug/g	92.37	<1.00e-02	<1.99e+02	<1.21e2			95.40	9.370	N/A
S9610022810	F	Lutide IC-Dioxex 40001/4500	ug/g	92.37	<1.00e-02	<1.99e+02	<1.21e2			124.4	118.7	N/A
S9610022810	F	Chloride IC-Dioxex 40001/4500	ug/g	94.18	<1.70e-02	5.94e+03	4.62e+03	5.28e+03	6.69	94.30	155.2	N/A
S9610022810	F	Nitrite IC - Dioxex 40001/4500	ug/g	94.18	<1.07e-01	5.54e+04	5.15e+04	5.34e+04	7.30	103.7	976.6	N/A
S9610022810	F	Bromide by Ion Chromatograph	ug/g	96.26	<1.26e-01	<1.15e+03	<1.17e3			95.48	1.15e+03	N/A
S9610022810	F	Nitrate by IC-Dioxex40001/4500	ug/g	99.35	<1.40e-01	<3.46e+05	3.46e+05	3.37e+05	5.34	89.90	1.28e+03	N/A
S9610022810	F	Phosphate IC-Dioxex40001/4500	ug/g	97.62	<1.19e-01	1.38e+03	6.55e+03	5.19e+03	52.2	95.05	1.08e+03	N/A
S9610022810	F	Sulfate by IC-Dioxex40001/4500	ug/g	99.21	<1.36e-01	1.36e+04	1.36e+04	1.39e+04	6.32	99.52	1.24e+03	N/A
S9610022810	F	Oxalate by IC - Dioxex 40001	ug/g	99.41	<1.05e-01	4.03e+03	4.43e+03	4.23e+03	9.46	99.21	958.3	N/A

Table 1. Data Summary Report
U-102

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	RA	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	Rp %	Spk Rec %	Det Limit	Count Err%
S967003609			DSC Exotherm using Mettler	Joules/g	100.5	N/A	15.80	14.80	15.30	6.54	N/A	N/A	N/A
S967003609			DSC Exotherm DRY Calculated	Joules/g	N/A	N/A	20.87	19.55	20.21	6.53	N/A	N/A	N/A
S967003609			% Water by TGA using Mettler	%	99.59	N/A	28.09	20.50	24.30	31.2	N/A	N/A	N/A
S967003609			TIC by Acid/Coulometry	ug/g	91.67	2.600	4.58e+03	5.14e+03	4.44e+03	11.7	95.60	5.000	N/A
S967003609			TOC by Persulfate/Coulometry	ug/g	91.67	2.600	5.70e+03	5.49e+03	5.57e+03	5.54	92.20	40.00	N/A
S967003610			Silver - ICP-Fusion	ug/g	99.60	<1.00e-02	<2.01e+02	<2.05e2	1.07e+04	N/A	71.70	201.0	N/A
S967003610			Aluminum - ICP-Fusion	ug/g	98.00	<5.00e-02	1.06e+04	1.08e+04	1.07e+04	1.87	103.0	1.01e+03	N/A
S967003610			Arsenic - ICP-Fusion	ug/g	100.4	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	105.1	2.01e+03	N/A
S967003610			Boron - ICP-Fusion	ug/g	103.2	<5.00e-02	<1.01e+03	<1.02e3	N/A	N/A	98.80	1.01e+03	N/A
S967003610			Beryllium - ICP-Fusion	ug/g	100.4	<5.00e-03	<1.01e+02	<1.02e2	N/A	N/A	103.4	101.0	N/A
S967003610			Bismuth - ICP-Fusion	ug/g	99.40	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	99.00	2.01e+03	N/A
S967003610			Calcium - ICP-Fusion	ug/g	99.40	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	101.0	2.01e+03	N/A
S967003610			Cadmium - ICP-Fusion	ug/g	101.4	<5.00e-03	<1.01e+02	<1.02e2	N/A	N/A	102.2	101.0	N/A
S967003610			Cerium - ICP-Fusion	ug/g	103.4	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	104.6	2.01e+03	N/A
S967003610			Cobalt - ICP-Fusion	ug/g	100.2	<2.00e-02	<4.03e+02	<4.10e2	N/A	N/A	102.2	403.0	N/A
S967003610			Chromium - ICP-Fusion	ug/g	102.0	<1.00e-02	<1.31e+03	<1.10e+03	1.20e+03	17.4	103.5	201.0	N/A
S967003610			Copper - ICP-Fusion	ug/g	99.60	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	102.0	201.0	N/A
S967003610			Iron - ICP-Fusion	ug/g	103.0	<5.00e-02	<1.01e+03	<1.02e3	N/A	N/A	103.9	1.01e+03	N/A
S967003610			Potassium - ICP-Fusion	ug/g	98.80	<5.00e-01	5.72e+06	N/A	N/A	N/A	N/A	1.01e+04	N/A
S967003610			Lanthanum - ICP-Fusion	ug/g	101.2	<5.00e-02	<1.01e+03	<1.02e3	N/A	N/A	103.4	1.01e+03	N/A
S967003610			Lithium - ICP-Fusion	ug/g	100.2	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	98.00	201.0	N/A
S967003610			Magnesium - ICP-Fusion	ug/g	100.2	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	101.2	2.01e+03	N/A
S967003610			Manganese - ICP-Fusion	ug/g	99.80	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	103.7	201.0	N/A
S967003610			Molybdenum - ICP-Fusion	ug/g	101.8	<5.00e-02	<1.01e+03	<1.02e3	N/A	N/A	101.5	1.01e+03	N/A
S967003610			Sodium - ICP-Fusion	ug/g	99.00	<1.550	2.51e+05	2.53e+05	2.52e+05	0.79	102.9	2.01e+03	N/A
S967003610			Neodymium - ICP-Fusion	ug/g	105.4	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	108.5	2.01e+03	N/A
S967003610			Nickel - ICP-Fusion	ug/g	101.0	1.03e-01	1.55e+03	1.97e+03	1.75e+03	25.1	101.7	403.0	N/A
S967003610			Phosphorus - ICP-Fusion	ug/g	102.8	<2.00e-01	<4.03e+03	<4.10e3	N/A	N/A	117.8	4.03e+03	N/A
S967003610			Lead - ICP-Fusion	ug/g	101.4	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	105.1	2.01e+03	N/A
S967003610			Sulfur - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.01e+03	<2.05e3	2.42e+03	0.41	103.8	2.01e+03	N/A
S967003610			Antimony - ICP-Fusion	ug/g	93.80	<5.00e-02	<1.21e+03	<1.23e3	N/A	N/A	96.60	2.01e+03	N/A
S967003610			Selenium - ICP-Fusion	ug/g	98.60	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	106.3	2.01e+03	N/A
S967003610			Silicon - ICP-Fusion	ug/g	95.00	<5.00e-02	<1.01e+03	<1.02e3	N/A	N/A	98.80	1.01e+03	N/A
S967003610			Strontium - ICP-Fusion	ug/g	101.2	<1.00e-01	<2.01e+03	<2.05e3	N/A	N/A	104.1	2.01e+03	N/A
S967003610			Titanium - ICP-Fusion	ug/g	100.4	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	102.9	201.0	N/A
S967003610			Thallium - ICP-Fusion	ug/g	96.80	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	100.2	4.03e+03	N/A
S967003610			Uranium - ICP-Fusion	ug/g	98.00	<5.00e-01	<4.03e+03	<4.10e3	N/A	N/A	100.2	4.03e+03	N/A
S967003610			Vanadium - ICP-Fusion	ug/g	93.60	<5.00e-01	<1.01e+04	<1.02e4	N/A	N/A	94.25	1.01e+04	N/A
S967003610			Zinc - ICP-Fusion	ug/g	100.4	<5.00e-02	<2.01e+02	<2.05e2	N/A	N/A	101.7	1.01e+03	N/A
S967003610			Zirconium - ICP-Fusion	ug/g	98.00	<1.00e-02	<2.01e+02	<2.05e2	N/A	N/A	100.0	201.0	N/A
S967003610			Cobalt-60 by BEA	uCi/g	107.5	<4.71e-02	<5.26e-02	<5.04e-2	N/A	N/A	N/A	5.30e-02	N/A

Sample #	RAW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk	Rec %	Det Limit	Count Error
S9610035610		Calcium - 137 by GEA	µCi/g	103.0	< 8.99e-02	1.21e+02	1.12e+02	184.7	0.90	N/A	N/A	N/A	0.46
S9610035611		Europium - 154 by GEA	µCi/g	N/A	< 1.57e-01	2.45e+01	< 1.57e-01	N/A	N/A	N/A	N/A	1.57e+01	N/A
S9610035612		Europium - 155 by GEA	µCi/g	N/A	< 1.22e-01	2.45e+01	< 1.68e-01	N/A	N/A	N/A	N/A	2.45e+01	N/A
S9610035613		Europium - 244 by GEA	µCi/g	N/A	< 5.49e-02	1.21e+02	< 1.68e-01	N/A	N/A	N/A	N/A	2.45e+01	N/A
S9610035614		Fluoride - Digested Solid	µCi/g	106.2	< 2.24e-02	6.75e+02	7.02e+02	6.78e+02	7.31	70.15	5.00e+03	1.44e+01	N/A
S9610035615		Fluoride - Digested Solid	µCi/g	106.2	< 1.30e-02	1.05e+03	< 1.06e3	N/A	N/A	N/A	N/A	10e+8	N/A
S9610035616		Chloride - Digested Solid	µCi/g	97.04	< 2.00e-01	3.27e+03	3.48e+03	3.41e+03	4.11	98.33	137.0	N/A	N/A
S9610035617		Chloride - Digested Solid	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035618		Bromine by Ion Chromatography	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035619		Bromine by Ion Chromatography	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035620		Strontium - 90 by GEA	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035621		Strontium - 90 by GEA	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035622		Strontium - 90 by GEA	µCi/g	97.04	< 1.07e-01	3.27e+03	3.48e+03	3.61e+03	5.88	103.5	862.3	N/A	N/A
S9610035623		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.34e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035624		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035625		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035626		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035627		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035628		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035629		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035630		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035631		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035632		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035633		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035634		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035635		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035636		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035637		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035638		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035639		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035640		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035641		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035642		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035643		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035644		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035645		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035646		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035647		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035648		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035649		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035650		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035651		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035652		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035653		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035654		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035655		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035656		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035657		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035658		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035659		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035660		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035661		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035662		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035663		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035664		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035665		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035666		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035667		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035668		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035669		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035670		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035671		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035672		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035673		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035674		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035675		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035676		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035677		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035678		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035679		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035680		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035681		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035682		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035683		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035684		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035685		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035686		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035687		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035688		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035689		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035690		Sulfate by Ion Chromatography	µCi/g	99.14	< 1.05e-01	2.65e+03	2.65e+03	2.65e+03	1.99	99.91	1.04e+03	N/A	N/A
S9610035691		Sulfate by Ion Chromatography	µ										

CODE NUMBER: 144
SEGMENT #: F8

Table 1. Data Summary Report
U-102

SEGMENT PORTION: Drainable Liquid

Sample #	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Error
S961002762		OSC Exotherm using Wettler	100es/g	110.4	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A	N/A
S961002762		OSC Exotherm using Wettler	100es/g	N/A	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A	N/A
S961002762		OSC Exotherm using Wettler	100es/g	97.14	N/A	9.76e-01	9.79e-01	9.78e-01	0.31	N/A	1.00e-03	N/A
S961002762		Specific Gravity using Wettler	SP.G.	98.38	N/A	99.03	99.87	99.45	0.84	N/A	N/A	N/A
S961002762		1 liter by volume	ug/ml	96.67	8.00e-01	9.470	<5.00e-01	99.45	99.45	N/A	N/A	N/A
S961002762		100 by volume (coolometry)	ug/ml	92.67	10.30	<4.00e-01	<5.00e-01	N/A	N/A	103.0	40.00	N/A
S961002762		Aluminum-ICP-Acid Dil.	ug/ml	99.60	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	102.0	2.50e-01	N/A
S961002762		Aluminum-ICP-Acid Dil.	ug/ml	97.80	<5.00e-02	2.61e-01	<2.50e-01	N/A	N/A	99.60	2.50e-01	N/A
S961002762		Aluminum-ICP-Acid Dil.	ug/ml	102.8	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	106.2	5.00e-01	N/A
S961002762		Boron-ICP-Acid Dil.	ug/ml	100.4	<5.00e-02	1.700	1.680	1.690	1.18	102.6	2.50e-01	N/A
S961002762		Boron-ICP-Acid Dil.	ug/ml	99.60	<5.00e-02	<2.50e-01	<2.50e-01	N/A	N/A	100.6	2.50e-01	N/A
S961002762		Beryllium-ICP-Acid Dil.	ug/ml	102.8	<5.00e-03	<2.50e-02	<2.50e-02	N/A	N/A	105.2	2.50e-01	N/A
S961002762		Bismuth-ICP-Acid Dil.	ug/ml	101.0	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	102.8	5.00e-01	N/A
S961002762		Calcium-ICP-Acid Dil.	ug/ml	102.8	<1.00e-01	3.170	2.990	3.080	5.84	103.4	5.00e-01	N/A
S961002762		Calcium-ICP-Acid Dil.	ug/ml	100.2	<5.00e-03	<2.50e-02	<2.50e-02	N/A	N/A	103.2	2.50e-02	N/A
S961002762		Cerium-ICP-Acid Dil.	ug/ml	102.6	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	105.4	5.00e-01	N/A
S961002762		Cobalt-ICP-Acid Dil.	ug/ml	100.2	<2.00e-02	<1.00e-01	<1.00e-01	N/A	N/A	102.8	1.00e-01	N/A
S961002762		Chromium-ICP-Acid Dil.	ug/ml	102.0	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	104.6	5.00e-02	N/A
S961002762		Copper-ICP-Acid Dil.	ug/ml	103.4	<1.00e-02	<2.50e-01	<2.50e-01	N/A	N/A	105.6	2.50e-01	N/A
S961002762		Iron-ICP-Acid Dil.	ug/ml	101.6	<5.00e-02	<2.50e-01	<2.50e-01	N/A	N/A	105.6	2.50e-01	N/A
S961002762		Potassium-ICP-Acid Dil.	ug/ml	95.00	<5.00e-01	<2.500	<2.50e0	N/A	N/A	113.4	2.500	N/A
S961002762		Lanthanum-ICP-Acid Dil.	ug/ml	100.8	<5.00e-02	<2.50e-01	<2.50e-01	N/A	N/A	103.0	2.50e-01	N/A
S961002762		Lithium-ICP-Acid Dil.	ug/ml	99.80	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	102.6	5.00e-02	N/A
S961002762		Magnesium-ICP-Acid Dil.	ug/ml	97.60	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	109.0	5.00e-01	N/A
S961002762		Manganese-ICP-Acid Dil.	ug/ml	98.60	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	100.4	5.00e-02	N/A
S961002762		Molybdenum-ICP-Acid Dil.	ug/ml	101.4	<5.00e-02	<2.50e-01	<2.50e-01	N/A	N/A	104.0	2.50e-01	N/A
S961002762		Sodium-ICP-Acid Dil.	ug/ml	100.4	<1.00e-01	15.10	14.80	14.95	2.01	97.20	5.00e-01	N/A
S961002762		Neodymium-ICP-Acid Dil.	ug/ml	102.4	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	104.6	5.00e-01	N/A
S961002762		Nickel-ICP-Acid Dil.	ug/ml	100.6	<2.00e-02	<1.00e-01	<1.00e-01	N/A	N/A	103.2	1.00e-01	N/A
S961002762		Phosphorus-ICP-Acid Dil.	ug/ml	101.0	<2.00e-02	<1.000	<1.00e0	N/A	N/A	102.6	5.00e-01	N/A
S961002762		Lead-ICP-Acid Dil.	ug/ml	99.20	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	98.60	3.00e-01	N/A
S961002762		Sulfur-ICP-Acid Dil.	ug/ml	99.60	<6.00e-02	<3.00e-01	<3.00e-01	N/A	N/A	98.60	3.00e-01	N/A
S961002762		Antimony-ICP-Acid Dil.	ug/ml	99.60	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	98.60	3.00e-01	N/A
S961002762		Selenium-ICP-Acid Dil.	ug/ml	99.60	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	98.60	3.00e-01	N/A
S961002762		Silicon-ICP-Acid Dil.	ug/ml	98.20	<5.00e-02	13.90	13.70	13.80	1.45	111.8	2.50e-01	N/A
S961002762		Strontium-ICP-Acid Dil.	ug/ml	99.60	<1.00e-01	<5.00e-01	<5.00e-01	N/A	N/A	98.60	3.00e-01	N/A
S961002762		Titanium-ICP-Acid Dil.	ug/ml	97.80	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	101.2	5.00e-02	N/A
S961002762		Thallium-ICP-Acid Dil.	ug/ml	96.80	<2.00e-01	<1.000	<1.00e0	N/A	N/A	94.80	1.000	N/A
S961002762		Uranium-ICP-Acid Dil.	ug/ml	95.80	<5.00e-01	<2.500	<2.50e0	N/A	N/A	95.80	2.500	N/A
S961002762		Vanadium-ICP-Acid Dil.	ug/ml	100.8	<1.00e-02	<1.50e-01	<2.50e-01	N/A	N/A	102.6	2.50e-01	N/A
S961002762		Zinc-ICP-Acid Dil.	ug/ml	101.4	<1.00e-02	7.91e-02	7.91e-02	9.45e-02	32.7	103.8	5.00e-02	N/A
S961002762		Zirconium-ICP-Acid Dil.	ug/ml	99.20	<1.00e-02	<5.00e-02	<5.00e-02	N/A	N/A	100.4	5.00e-02	N/A

Sample#	RAM Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err-X
S961002763	Fluoride-IC-Dionex 4000/4500	ug/mL	110.7	<1.30e-02	<7.80e-02	<7.80e-02	n/a	n/a	n/a	7.80e-02	n/a
S961002763	Chloride-IC-Dionex 4000/4500	ug/mL	106.8	<1.70e-02	6.94e-01	7.55e-01	7.24e-01	8.42	n/a	1.02e-01	n/a
S961002763	Nitrite-IC-Dionex 4000/4500	ug/mL	101.7	<1.07e-01	2.565	2.600	2.583	1.55	n/a	6.42e-01	n/a
S961002763	Bromide by Ion Chromatograph	ug/mL	102.3	<1.26e-01	<7.56e-01	<7.56e-01	n/a	n/a	n/a	7.56e-01	n/a
S961002763	Nitrate-IC-Dionex 4000/4500	ug/mL	104.6	<1.40e-01	7.407	6.990	7.192	5.83	n/a	8.40e-01	n/a
S961002763	Phosphate-IC-Dionex 4000/4500	ug/mL	102.9	<1.19e-01	<7.13e-01	<7.13e-01	n/a	n/a	n/a	7.13e-01	n/a
S961002763	Sulfate by IC-Dionex 4000/4500	ug/mL	104.8	<1.34e-01	1.627	1.550	1.582	5.03	n/a	8.15e-01	n/a
S961002763	Oxalate by IC-Dionex 4000/4500	ug/mL	105.9	<1.05e-01	<6.30e-01	<6.30e-01	n/a	n/a	n/a	6.30e-01	n/a
S961002762	Alpha in Liquid Samples	LC/mL	103.9	<4.67e-04	<4.62e-06	<4.61E-6	n/a	n/a	91.64	1.10e-05	5.00E+02

Table 1. Data Summary Report
U-102

CORE NUMBER: 144
SEGMENT #: L1Br

SEGMENT PORTION: Hydrostatic Head Fluid

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk	Rec %	Det Limit	Count Err%
S961002511	D	Silver-ICP-Acid Dil.	ug/mL	99.40	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	93.00	93.10	2.00e-01	N/A
S961002511	D	Aluminum-ICP-Acid Dil.	ug/mL	100.4	<5.00e-02	1.390	1.600	1.495	14.0	99.10	99.10	1.000	N/A
S961002511	D	Arsenic-ICP-Acid Dil.	ug/mL	104.6	<1.00e-01	<2.000	<2.000	1.495	14.0	105.5	105.5	1.000	N/A
S961002511	D	Boron-ICP-Acid Dil.	ug/mL	103.6	<5.00e-02	<1.000	<1.000	1.495	14.0	101.5	101.5	1.000	N/A
S961002511	D	Barium-ICP-Acid Dil.	ug/mL	100.8	<5.00e-02	<1.000	<1.000	1.495	14.0	99.50	99.50	1.000	N/A
S961002511	D	Beryllium-ICP-Acid Dil.	ug/mL	107.0	<5.00e-03	<1.00e-01	<1.00e-01	1.495	14.0	105.0	105.0	1.00e-01	N/A
S961002511	D	Bismuth-ICP-Acid Dil.	ug/mL	103.2	<1.00e-01	<2.000	<2.000	1.495	14.0	101.5	101.5	2.000	N/A
S961002511	D	Calcium-ICP-Acid Dil.	ug/mL	99.60	<5.00e-03	9.910	9.960	9.935	0.50	101.0	101.0	2.000	N/A
S961002511	D	Cadmium-ICP-Acid Dil.	ug/mL	99.60	<5.00e-03	<1.00e-01	<1.00e-01	1.495	14.0	98.50	98.50	1.00e-01	N/A
S961002511	D	Cerium-ICP-Acid Dil.	ug/mL	104.0	<1.00e-01	<2.000	<2.000	1.495	14.0	103.5	103.5	2.000	N/A
S961002511	D	Cobalt-ICP-Acid Dil.	ug/mL	99.80	<2.00e-02	<4.00e-01	<4.00e-01	1.495	14.0	98.50	98.50	4.00e-01	N/A
S961002511	D	Chromium-ICP-Acid Dil.	ug/mL	101.2	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	100.5	100.5	2.00e-01	N/A
S961002511	D	Copper-ICP-Acid Dil.	ug/mL	107.0	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	105.5	105.5	2.00e-01	N/A
S961002511	D	Iron-ICP-Acid Dil.	ug/mL	101.8	<5.00e-02	<1.000	<1.000	1.495	14.0	100.5	100.5	1.000	N/A
S961002511	D	Potassium-ICP-Acid Dil.	ug/mL	102.8	<5.00e-01	<10.00	<1.00e-01	1.495	14.0	117.0	117.0	10.00	N/A
S961002511	D	Lanthanum-ICP-Acid Dil.	ug/mL	102.0	<5.00e-02	<2.61e+03	<2.61e+03	2.61e+03	0.00	273.9	273.9	2.00e-01	N/A
S961002511	D	Lithium-ICP-Acid Dil.	ug/mL	105.6	<1.00e-02	<2.000	<2.000	1.495	14.0	102.5	102.5	2.00e-01	N/A
S961002511	D	Magnesium-ICP-Acid Dil.	ug/mL	99.80	<1.00e-01	<2.00e-01	<2.00e-01	1.495	14.0	95.00	95.00	2.00e-01	N/A
S961002511	D	Manganese-ICP-Acid Dil.	ug/mL	100.4	<5.00e-02	<1.000	<1.00e-01	1.495	14.0	100.5	100.5	1.000	N/A
S961002511	D	Niobium-ICP-Acid Dil.	ug/mL	103.0	<1.00e-01	<23.70	<23.90	23.80	0.34	104.8	104.8	2.000	N/A
S961002511	D	Neodymium-ICP-Acid Dil.	ug/mL	103.4	<1.00e-01	<2.000	<2.000	1.495	14.0	102.5	102.5	2.000	N/A
S961002511	D	Nickel-ICP-Acid Dil.	ug/mL	100.2	<2.00e-02	<4.45e-01	<4.45e-01	1.495	14.0	98.30	98.30	4.00e-01	N/A
S961002511	D	Phosphorus-ICP-Acid Dil.	ug/mL	99.60	<2.00e-01	<4.000	<4.000	1.495	14.0	101.0	101.0	4.000	N/A
S961002511	D	Lead-ICP-Acid Dil.	ug/mL	97.20	<1.00e-01	<2.000	<2.000	1.495	14.0	95.50	95.50	2.000	N/A
S961002511	D	Sulfur-ICP-Acid Dil.	ug/mL	99.40	<1.00e-01	<2.000	<2.010	1.495	14.0	111.0	111.0	2.000	N/A
S961002511	D	Antimony-ICP-Acid Dil.	ug/mL	99.60	<6.00e-02	<2.000	<2.000	1.495	14.0	95.00	95.00	1.200	N/A
S961002511	D	Selenium-ICP-Acid Dil.	ug/mL	99.60	<1.00e-01	<2.000	<2.000	1.495	14.0	103.5	103.5	2.000	N/A
S961002511	D	Silicon-ICP-Acid Dil.	ug/mL	97.80	<5.00e-02	<56.70	<56.70	56.35	1.24	102.7	102.7	1.000	N/A
S961002511	D	Samarium-ICP-Acid Dil.	ug/mL	99.80	<1.00e-01	<2.000	<2.000	1.495	14.0	96.50	96.50	2.000	N/A
S961002511	D	Strontium-ICP-Acid Dil.	ug/mL	101.0	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	100.5	100.5	2.00e-01	N/A
S961002511	D	Titanium-ICP-Acid Dil.	ug/mL	99.80	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	99.50	99.50	2.00e-01	N/A
S961002511	D	Thallium-ICP-Acid Dil.	ug/mL	96.80	<2.00e-01	<4.000	<4.000	1.495	14.0	92.00	92.00	4.000	N/A
S961002511	D	Uranium-ICP-Acid Dil.	ug/mL	97.60	<5.00e-01	<10.00	<1.00e-01	1.495	14.0	92.75	92.75	10.000	N/A
S961002511	D	Vanadium-ICP-Acid Dil.	ug/mL	101.0	<5.00e-02	<1.000	<1.000	1.495	14.0	99.50	99.50	1.000	N/A
S961002511	D	Zinc-ICP-Acid Dil.	ug/mL	100.0	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	90.50	90.50	2.00e-01	N/A
S961002511	D	Zirconium-ICP-Acid Dil.	ug/mL	99.40	<1.00e-02	<2.00e-01	<2.00e-01	1.495	14.0	98.50	98.50	2.00e-01	N/A
S961002511	D	Fluoride-IC-Dioxex 40001/4500	ug/mL	97.12	<1.30e-02	<2.57	<2.76e-01	44.16	19.7	N/A	N/A	27.57	N/A
S961002511	D	Chloride-IC-Dioxex 40001/4500	ug/mL	93.86	<1.70e-02	<39.81	<48.50	N/A	N/A	N/A	N/A	36.06	N/A
S961002511	D	Nitrite-IC - Dioxex 40001/4500	ug/mL	95.86	<1.07e-01	<2.94e+04	<2.94e+04	2.94e+04	1.35	N/A	N/A	226.9	N/A
S961002511	D	Bromide by Ion Chromatograph	ug/mL	96.74	<1.26e-01	<2.97e+02	<2.97e+02	2.96e+04	1.35	N/A	N/A	296.9	N/A
S961002511	D	Nitrate-IC - Dioxex 40001/4500	ug/mL	96.74	<1.26e-01	<2.97e+02	<2.97e+02	2.96e+04	1.35	N/A	N/A	296.9	N/A
S961002511	D	Phosphate-IC-Dioxex 40001/4500	ug/mL	98.17	<1.19e-01	<2.52e+02	<2.52e+02	N/A	N/A	N/A	N/A	252.2	N/A

Sample#	R14#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %
3951002511		Sulfate by IC-Dionex4000/4500	ug/mL	109.2	<1.35e-01	<2.58e+02	<2.58e+02	0.0	0.0	0.0	288.2	N/A
3951002511		Oxalate by IC - Dionex 4000	ug/mL	105.8	<1.05e-01	2.37e+02	<2.37e+02	0.0	0.0	0.0	222.7	N/A

Table 1. Data Summary Report
U-102

CORE NUMBER: 144

SEGMENT #: Core Composite

SEGMENT PORTION: Core Composite

Sample#	R AF	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961003669		Bulk Density of Sample	g/mL	n/a	n/a	1.050	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961003670		DSC Exotherm using Mettler	Joules/g	106.2	n/a	1.65e+02	128.3	156.6	36.1	n/a	n/a	n/a
S961003670		DSC Exotherm Dry Calculated	Joules/g Dry	106.2	n/a	2.90e+02	201.0	265.3	36.3	n/a	n/a	n/a
S961003670		% Water by TGA using Mettler	%	99.58	n/a	3.37e+04	35.32	36.19	4.81	n/a	n/a	n/a
S961003670		TIC by Acid/Coulometry	ug/g	100.2	3.00e-01	1.03e+04	1.01e+04	1.02e+04	1.96	n/a	5.000	n/a
S961003670		TIC by Persulfate/Coulometry	ug/g	94.67	1.990	9.39e+03	9.05e+03	9.22e+03	3.69	n/a	40.00	n/a
S961003675		F Uranium by Phosphorescence	ug/g	96.86	<1.900	1.56e+02	144.0	150.0	8.00	89.50	1.990	1.7
S961003675		F Uranium-89/90 High Level	% Inst Error	7.54	n/a	1.700	1.800	1.750	1.80	n/a	n/a	n/a
S961003675		F Strontium - ICP-Fusion	ug/g	98.40	6.20e-02	44.60	40.10	42.35	10.6	n/a	1.20e-02	4.96E-01
S961003675		F Silver - ICP-Fusion	ug/g	98.40	<1.00e-02	2.21e+02	2.07e+02	2.14e+02	83.50	n/a	221.0	n/a
S961003675		F Aluminum - ICP-Fusion	ug/g	98.00	<5.00e-02	1.89e+04	1.65e+04	1.77e+04	13.6	n/a	93.50	n/a
S961003675		F Arsenic - ICP-Fusion	ug/g	104.6	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	104.0	n/a	2.21e+03	n/a
S961003675		F Boron - ICP-Fusion	ug/g	99.60	<5.00e-02	<1.10e+03	<1.03e+03	1.08e+03	n/a	n/a	1.10e+03	n/a
S961003675		F Barium - ICP-Fusion	ug/g	98.40	<5.00e-02	<1.10e+03	<1.03e+03	1.08e+03	n/a	n/a	1.10e+03	n/a
S961003675		F Beryllium - ICP-Fusion	ug/g	101.6	<5.00e-03	<1.10e+02	<1.03e+02	1.08e+02	n/a	n/a	1.10e+02	n/a
S961003675		F Bismuth - ICP-Fusion	ug/g	102.8	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Calcium - ICP-Fusion	ug/g	99.00	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Cadmium - ICP-Fusion	ug/g	100.4	<5.00e-03	<1.10e+02	<1.03e+02	1.08e+02	n/a	n/a	1.10e+02	n/a
S961003675		F Cerium - ICP-Fusion	ug/g	101.4	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Cobalt - ICP-Fusion	ug/g	102.6	<2.00e-02	4.41e+02	4.13e+02	4.27e+02	98.10	n/a	443.0	n/a
S961003675		F Chromium - ICP-Fusion	ug/g	99.40	<1.00e-02	2.28e+03	2.14e+03	2.21e+03	6.33	n/a	221.0	n/a
S961003675		F Copper - ICP-Fusion	ug/g	99.40	<1.00e-02	2.21e+02	<2.07e+02	2.14e+02	n/a	n/a	221.0	n/a
S961003675		F Iron - ICP-Fusion	ug/g	100.0	<5.00e-02	<1.10e+03	<1.03e+03	1.08e+03	n/a	n/a	1.10e+03	n/a
S961003675		F Potassium - ICP-Fusion	ug/g	105.8	<5.00e-01	7.29e+06	<1.03e+06	1.08e+06	n/a	n/a	1.10e+06	n/a
S961003675		F Lanthanum - ICP-Fusion	ug/g	101.8	<5.00e-02	<1.10e+02	<1.03e+02	1.08e+02	n/a	n/a	1.10e+02	n/a
S961003675		F Lithium - ICP-Fusion	ug/g	100.2	<1.00e-02	2.21e+02	<2.07e+02	2.14e+02	n/a	n/a	2.21e+02	n/a
S961003675		F Magnesium - ICP-Fusion	ug/g	95.00	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Manganese - ICP-Fusion	ug/g	97.80	<1.00e-02	<2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Molybdenum - ICP-Fusion	ug/g	101.6	<5.00e-02	<1.10e+03	<1.03e+03	1.08e+03	n/a	n/a	1.10e+03	n/a
S961003675		F Sodium - ICP-Fusion	ug/g	98.20	2.000	2.74e+05	2.52e+05	2.63e+05	8.37	n/a	221.0	n/a
S961003675		F Neodymium - ICP-Fusion	ug/g	99.80	<1.00e-01	2.21e+03	2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Nickel - ICP-Fusion	ug/g	103.8	7.70e-02	7.59e+02	1.06e+03	909.5	33.1	98.60	443.0	n/a
S961003675		F Phosphorus - ICP-Fusion	ug/g	104.6	<2.00e-01	4.41e+03	4.13e+03	4.27e+03	n/a	n/a	4.43e+03	n/a
S961003675		F Lead - ICP-Fusion	ug/g	98.60	<1.00e-01	6.33e+03	5.82e+03	6.08e+03	8.40	n/a	2.21e+03	n/a
S961003675		F Antimony - ICP-Fusion	ug/g	96.80	<6.00e-02	<1.32e+03	<1.24e+03	1.28e+03	n/a	n/a	1.32e+03	n/a
S961003675		F Selenium - ICP-Fusion	ug/g	96.60	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Silicon - ICP-Fusion	ug/g	95.40	<5.00e-02	<1.10e+03	<1.03e+03	1.08e+03	n/a	n/a	1.10e+03	n/a
S961003675		F Samarium - ICP-Fusion	ug/g	97.80	<1.00e-01	2.21e+03	<2.07e+03	2.14e+03	n/a	n/a	2.21e+03	n/a
S961003675		F Strontium - ICP-Fusion	ug/g	98.40	<1.00e-02	<2.21e+02	<2.07e+02	2.14e+02	n/a	n/a	221.0	n/a
S961003675		F Tantalum - ICP-Fusion	ug/g	97.40	<1.00e-02	2.21e+02	<2.07e+02	2.14e+02	n/a	n/a	221.0	n/a
S961003675		F Thallium - ICP-Fusion	ug/g	96.00	<2.00e-01	4.41e+03	4.13e+03	4.27e+03	n/a	n/a	4.43e+03	n/a
S961003675		F Uranium - ICP-Fusion	ug/g	95.50	<5.00e-01	<1.10e+04	<1.03e+04	1.08e+04	n/a	n/a	1.10e+04	n/a

Sample#	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	% Spk	Rec %	Det Limit	Count	Err%
S961003675	F Vanadium - ICP-Fusion	ug/g	99.20	< 5.00e-02	< 1.00e+03	< 1.00e+03	N/A	N/A	N/A	54.60	1.0e+03	N/A	N/A
S961003676	F Zinc - ICP-Fusion	ug/g	100.00	< 1.00e-02	< 3.00e+03	< 3.00e+03	N/A	N/A	N/A	54.60	22.00	N/A	N/A
S961003677	F Zirconium - ICP-Fusion	ug/g	99.80	< 1.00e-02	< 2.10e+02	< 3.00e+02	N/A	N/A	N/A	54.20	22.00	N/A	N/A
S961003678	F Cobalt-60 by GE	uCi/g	102.4	< 7.21e-02	< 2.10e+02	< 3.00e+02	N/A	N/A	N/A	54.20	9.80e-02	N/A	N/A
S961003679	F Cesium-137 by GE	uCi/g	100.0	< 8.88e-02	< 1.98e+02	< 3.00e+02	184.8	14.1	N/A	N/A	N/A	N/A	0.850
S961003679	F Europium-154 by GE	uCi/g	100.0	< 1.81e-01	< 1.98e+02	< 3.00e+02	184.8	14.1	N/A	N/A	N/A	N/A	N/A
S961003679	F Europium-155 by GE	uCi/g	N/A	< 2.19e-01	< 1.05e+02	< 1.05e+02	N/A	N/A	N/A	3.91e+01	N/A	N/A	N/A
S961003679	F Americium-241 by GE	uCi/g	N/A	< 4.30e-01	< 2.07e+02	< 1.05e+02	N/A	N/A	N/A	3.91e+01	N/A	N/A	N/A
S961003679	F Alpha of Digested Solid	uCi/g	110.2	< 6.91e-03	< 1.76e+01	< 1.76e+01	1.70e+01	9.4	N/A	N/A	1.6e+03	N/A	N/A
S961003679	F Beta of Solid Sample	uCi/g	99.20	< 1.00e-02	< 2.91e+02	< 3.00e+02	277.3	0.0	N/A	58.21	7.40e+02	1.92e+01	3.55e-01
S961003679	F Aluminum - ICP-Acid Digest	ug/g	99.20	< 8.40e-02	< 1.64e+02	< 1.64e+02	1.58e+02	0.00	N/A	21.40	2.80e+01	N/A	N/A
S961003679	F Arsenic - ICP-Acid Digest	ug/g	96.20	< 1.00e-01	< 48.00	< 48.00	1.63e+04	4.94	N/A	4.40e+01	2.80e+01	N/A	N/A
S961003679	F Boron - ICP-Acid Digest	ug/g	116.8	< 4.51e-01	< 95.20	< 78.50	86.35	19.3	N/A	54.80	48.00	N/A	N/A
S961003679	F Barium - ICP-Acid Digest	ug/g	93.00	< 5.00e-02	< 24.00	< 24.00	N/A	N/A	N/A	51.20	24.00	N/A	N/A
S961003679	F Beryllium - ICP-Acid Digest	ug/g	96.60	< 5.00e-03	< 2.400	< 2.400	N/A	N/A	N/A	54.40	2.400	N/A	N/A
S961003679	F Bismuth - ICP-Acid Digest	ug/g	94.40	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	53.60	48.00	N/A	N/A
S961003679	F Calcium - ICP-Acid Digest	ug/g	111.4	< 1.20e-01	< 1.98e+02	< 196.0	197.0	1.02	N/A	54.60	48.00	N/A	N/A
S961003679	F Cadmium - ICP-Acid Digest	ug/g	92.00	< 5.00e-03	< 7.300	< 7.300	7.365	1.77	N/A	90.80	7.400	N/A	N/A
S961003679	F Cerium - ICP-Acid Digest	ug/g	95.40	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	54.20	48.00	N/A	N/A
S961003679	F Cobalt - ICP-Acid Digest	ug/g	94.80	< 2.00e-02	< 9.610	< 9.690	N/A	N/A	N/A	53.90	9.600	N/A	N/A
S961003679	F Chromium - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	< 2.13e+03	< 2.05e+03	2.09e+03	3.83	N/A	70.00	4.800	N/A	N/A
S961003679	F Copper - ICP-Acid Digest	ug/g	92.40	< 2.00e-02	< 7.620	< 6.950	7.285	9.20	N/A	86.60	24.00	N/A	N/A
S961003679	F Iron - ICP-Acid Digest	ug/g	93.60	< 1.36e-01	< 4.00e+02	< 3.95e+02	4.02e+02	2.99	N/A	86.60	24.00	N/A	N/A
S961003679	F Potassium - ICP-Acid Digest	ug/g	92.80	< 5.00e-02	< 1.94e+03	< 1.83e+03	1.88e+03	5.84	N/A	77.00	240.0	N/A	N/A
S961003679	F Lanthanum - ICP-Acid Digest	ug/g	92.80	< 5.00e-02	< 24.00	< 24.00	N/A	N/A	N/A	55.40	24.00	N/A	N/A
S961003679	F Lithium - ICP-Acid Digest	ug/g	94.60	< 1.00e-02	< 4.800	< 4.840	N/A	N/A	N/A	55.60	4.800	N/A	N/A
S961003679	F Magnesium - ICP-Acid Digest	ug/g	94.40	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	88.60	48.00	N/A	N/A
S961003679	F Manganese - ICP-Acid Digest	ug/g	94.00	< 1.00e-02	< 1.31e+02	< 123.0	127.0	6.30	N/A	86.00	4.800	N/A	N/A
S961003679	F Molybdenum - ICP-Acid Digest	ug/g	90.40	< 5.00e-02	< 50.00	< 46.60	48.30	7.04	N/A	93.40	24.00	N/A	N/A
S961003679	F Sodium - ICP-Acid Digest	ug/g	147.6	< 7.32e-01	< 1.94e+05	< 1.93e+05	1.96e+05	0.51	N/A	-1.190e+3	48.00	N/A	N/A
S961003679	F Neodymium - ICP-Acid Digest	ug/g	94.60	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	54.60	48.00	N/A	N/A
S961003679	F Nickel - ICP-Acid Digest	ug/g	94.60	< 2.00e-02	< 1.06e+02	< 100.0	103.0	5.83	N/A	91.40	9.600	N/A	N/A
S961003679	F Phosphorus - ICP-Acid Digest	ug/g	92.60	< 2.00e-01	< 1.64e+03	< 2.16e+03	1.91e+03	26.2	N/A	96.00	N/A	N/A	N/A
S961003679	F Lead - ICP-Acid Digest	ug/g	90.00	< 1.00e-01	< 72.00	< 69.50	70.75	3.53	N/A	87.80	48.00	N/A	N/A
S961003679	F Sulfur - ICP-Acid Digest	ug/g	91.40	< 1.00e-01	< 8.00e+02	< 5.54e+03	5.67e+03	4.59	N/A	43.60	48.00	N/A	N/A
S961003679	F Antimony - ICP-Acid Digest	ug/g	88.20	< 5.00e-02	< 28.80	< 29.1e	N/A	N/A	N/A	88.00	28.80	N/A	N/A
S961003679	F Selenium - ICP-Acid Digest	ug/g	91.20	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	94.20	48.00	N/A	N/A
S961003679	F Silicon - ICP-Acid Digest	ug/g	73.60	< 1.48e-01	< 1.69e+02	< 142.0	155.5	17.4	N/A	105.0	24.00	N/A	N/A
S961003679	F Samarium - ICP-Acid Digest	ug/g	95.00	< 1.00e-01	< 48.00	< 48.00	N/A	N/A	N/A	91.80	48.00	N/A	N/A
S961003679	F Strontium - ICP-Acid Digest	ug/g	93.60	< 1.00e-02	< 4.800	< 4.840	N/A	N/A	N/A	91.80	4.800	N/A	N/A
S961003679	F Tantalum - ICP-Acid Digest	ug/g	92.40	< 1.00e-02	< 4.800	< 4.840	N/A	N/A	N/A	91.20	4.800	N/A	N/A
S961003679	F Thallium - ICP-Acid Digest	ug/g	88.20	< 2.00e-01	< 96.10	< 99.60	N/A	N/A	N/A	88.60	96.00	N/A	N/A
S961003679	F Uranium - ICP-Acid Digest	ug/g	92.60	< 5.00e-01	< 2.40e+02	< 2.42e2	N/A	N/A	N/A	94.00	240.0	N/A	N/A
S961003679	F Vanadium - ICP-Acid Digest	ug/g	89.60	< 1.80e-02	< 17.00	< 24.2e1	N/A	N/A	N/A	81.20	24.00	N/A	N/A
S961003679	F Zinc - ICP-Acid Digest	ug/g	92.60	< 1.00e-02	< 52.30	< 6.660	8.525	3.17	N/A	89.80	4.800	N/A	N/A
S961003679	F Zirconium - ICP-Acid Digest	ug/g	97.12	< 1.30e-02	< 5.233	< 5.45e1	N/A	N/A	N/A	198.3	52.23	N/A	N/A
S961003677	F Fluoride-19-Bioxer 40001/4500	ug/g	98.23	< 1.70e-02	< 7.44e+03	< 4.95e+03	8.85e+03	4.33	N/A	101.6	68.29	N/A	N/A
S961003677	F Chloride-35-Bioxer 40001/4500	ug/g	92.83	< 1.07e-01	< 5.59e+04	< 5.91e+04	5.75e+04	5.57	N/A	104.4	429.9	N/A	N/A

Sample#	RAW Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %
S961003677	N Bromide by Ion Chromatograph	ug/l	95.08	<1.26e-01	<5.05e-02	<5.28e2	N/A	N/A	86.08	506.3	N/A
S961003677	N Nitrate by IC-Dionex 4000/4500	ug/l	91.92	<1.40e-01	2.33e+05	2.33e+05	2.32e+05	0.43	74.24	562.0	N/A
S961003677	N Phosphate by IC-Dionex 4000/4500	ug/l	93.76	<1.19e-01	6.34e+03	5.79e+03	7.07e+03	36.1	104.8	477.8	N/A
S961003677	N Sulfate by IC-Dionex 4000/4500	ug/l	93.82	<1.36e-01	1.68e+04	1.74e+04	1.71e+04	3.51	97.62	546.0	N/A
S961003677	N Oxalate by IC - Dionex 4000	ug/l	100.2	<1.05e-01	5.80e+03	6.14e+03	5.97e+03	5.70	106.4	421.9	N/A

WHC-SD-WM-DP-189, REV. 1

ATTACHMENT 1

U-102 PUSH MODE CORE SAMPLE BREAKDOWNS

WHC-SD-WM-DP-189, REV. 1

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U-102
Core:143
Seg: 3
S96T002188

Attachment 1
Page 3 of 20

U-102
Core:143
Seg: 4
S96T002189

Attachment 1
Page 4 of 20

U-102
Core:143
Seg: 5
S96T002190

Attachment 1
Page 5 of 20

U-102
Core:143
Seg: 5A
S96T002191

Attachment 1
Page 6 of 20

U-102
Core:143
Seg: 6
S96T002626

93

Attachment 1
Page 9 of 20

U-102
Core: 143
Seg: 6A
S96T002627

NO
SAMPLE

U-102
Core:143
Composite:
Whole Core

S96T003668

S96T003678

S96T003679

S96T003680

S96T003682

S96T003684

Composited:

Segment Grams:

1 UH	5.0
1 LH	5.0
2 UH	10.0
2 LH	10.0
3 UH	10.0
3 LH	10.0
4 UH	10.0
4 LH	10.0
5 WS	5.0
5A WS	5.0
5B UH	5.0
5B LH	5.0

U-102

Core:144

Seg: 1

S96T002492

Attachment 1

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WHC-SD-WM-DP-189, REV. I

U-102
Core:144
Seg: 2
S96T002493

Attachment 1
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U-102
Core:144
Seg: 3
S96T002494

Attachment 1
Page 13 of 20

U-102
Core:144
Seg: 4
S96T002628

Attachment 1
Page 14 of 20

U-102
Core:144
Seg: 5
S96T002629

Attachment 1
Page 15 of 20

U-102
Core:144
Seg: 6
S96T002630

Attachment 1
Page 16 of 20

U-102
Core:144
Seg: 6A
S96T002510

U-102

Core:144

Seg: FB

S96T002631

Attachment 1 Page 18 of 20

WHC-SD-WM-DP-189, REV. I

U-102
Core:144
Seg: LiBr
S96T002511

KCP
IC-ANIONS

Attachment 1
Page 19 of 20

Attachment 1 Page 20 of 20

U-102
Core:144
Composite:
Whole Core

HOMGENIZE
COMPOSITE
WATER
DENSITY

S96T003669

S96T003670

S96T003674

S96T003675

S96T003676

S96T003677

Composited:

Segment: Grams:

1	LH	5.0
2	UH	10.0
2	LH	10.0
3	UH	10.0
3	LH	10.0
4	UH	10.0
4	LH	10.0
5	UH	10.0
5	LH	10.0
6	UH	10.0
6	LH	10.0
6A	UH	5.0

WHC-SD-MM-DP-189, REV. 1

ATTACHMENT 2

U-102 PUSH MODE CORE COMPOSITE WORKSHEETS

WHC-SD-WM-DP-189, REV. 1

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Composite Worksheet

Date: 7/9/96

Tank: U102

P.C.: STEEN

Phone# 372-2495

Sample
ID: S916002327
Auger/
Core: 143
Segment: 14H

Jar#/: 9890 (B10#29)
Jar/Vial Size: 60 mL
Initial Weight: 169.5 g
Final Weight: 163.2 g
Net Weight: 6.3 g

Sample
ID: S916002330
Auger/
Core: 143
Segment: 14H

Jar#/: 9891 (B10#29)
Jar/Vial Size: 60 mL
Initial Weight: 105.4 g
Final Weight: 100.2 g
Net Weight: 5.2 g

Sample
ID: S916002333
Auger/
Core: 143
Segment: 24H

Jar#/: 9892 (B10#29)
Jar/Vial Size: 60 mL
Initial Weight: 157.1 g
Final Weight: 145.2 g
Net Weight: 11.9 g

Sample
ID: S916002336
Auger/
Core: 143
Segment: 24H

Jar#/: 9893 (B10#29)
Jar/Vial Size: 60 mL
Initial Weight: 159.8 g
Final Weight: 148.6 g
Net Weight: 11.2 g

Start Time: _____
End Time: _____

Tests:
COMPOSOL
HOMIGENIZO
BLADENOL

Jar#/: # 10421
Jar/Vial Size: 125 mL
Final Weight: 220.2 g
Initial Weight: 129.2 g
Net Weight: 91.0 g

Homogenization
Time (Min.): _____

(after final
subsample added)

Special Instructions: Composite as follows:

5 grams from each of the following: # 2327, 2330, 2502, 2503, 2670 + 2675

10 grams from each of the following: # 2330, 2333, 2336, 2339, 2342, 2345 + 2348

Page 1 of 3

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HC-SD-WM-02-189, Rev. 1/90

No. 3232

9/18

AL: XUCK 24 BACKS103

WED 7/27/96

10 7/27/96

Composite Worksheet

Date: 7/9/96

Tank: W02

P.C. STEEN
Phone# 372-2445

Sample
ID: 596T002339
Auger/
Core: 143
Segment: 36H

Sample
ID: 596T002342
Auger/
Core: 143
Segment: 36H

Sample
ID: 596T002345
Auger/
Core: 143
Segment: 46H

Sample
ID: 596T00234
Auger/
Core: 143
Segment: 46H

Jar#: 9894 (BIN#29)
Jar/Vial Size: 60 mL
Initial Weight: 168.8 g
Final Weight: 157.9 g
Net Weight: 10.9 g

Jar#: 9895 (BIN#29)
Jar/Vial Size: 60 mL
Initial Weight: 178.8 g
Final Weight: 167.2 g
Net Weight: 11.6 g

Jar#: 9896 (BIN#29)
Jar/Vial Size: 60 mL
Initial Weight: 168.7 g
Final Weight: 157.0 g
Net Weight: 11.7 g

Jar#: 9897 (BIN#29)
Jar/Vial Size: 60 mL
Initial Weight: 177.9 g
Final Weight: 168.3 g
Net Weight: 11.6 g

See Parent
Jar# 1042L
on Page #1

Special Instructions:

Composite Worksheet

ate: 7/9/96

ank: 4102

Sample

ID: 5967002502

Auger/

Core: 143

Segment: 5 WS

Jar/Vial Size: 60 mL

Initial Weight: 143.2 g

Final Weight: 134.7 g

Net Weight: 8.5 g

Sample

ID: 5967002503

Auger/

Core: 143

Segment: 5A WS

Jar/Vial Size: 60 mL

Initial Weight: 218.2 g

Final Weight: 207.3 g

Net Weight: 10.9 g

Sample

ID: 5967002670

Auger/

Core: 143

Segment: 5B WH

Jar/Vial Size: 60 mL

Initial Weight: 201.4 g

Final Weight: 186.1 g

Net Weight: 15.3 g

Sample

ID: 5967002669

Auger/

Core: 143

Segment: 5B WH

Jar/Vial Size: 60 mL

Initial Weight: 180.7 g

Final Weight: 171.6 g

Net Weight: 9.1 g

P.C. STEEN

Phone# 372-2495

WCH-SD-WM-JC-189, REV

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See Parent
Jar# 10421
on Page #1

Special Instructions:

Final Composite Calculation Sheet

Date: 7/22/96 Technician: HyattTotal number of jars used to build the composite: 12Composite Jar number: 10421 Jar size: 125

- 1) Sample from segment jar 9890 to composite jar = 5.4 grams
- 2) Sample from segment jar 9891 to composite jar = 5.1 grams
- 3) Sample from segment jar 9892 to composite jar = 10.1 grams
- 4) Sample from segment jar 9893 to composite jar = 9.7 grams
- 5) Sample from segment jar 9894 to composite jar = 9.9 grams
- 6) Sample from segment jar 9895 to composite jar = 10.0 grams
- 7) Sample from segment jar 9896 to composite jar = 9.9 grams
- 8) Sample from segment jar 9897 to composite jar = 10.2 grams
- 9) Sample from segment jar 10209 to composite jar = 4.9 grams
- 10) Sample from segment jar 10206 to composite jar = 5.7 grams
- 11) Sample from segment jar 10205 to composite jar = 4.9 grams
- 12) Sample from segment jar 10204 to composite jar = 5.2 grms
- 13) Sample from segment jar to composite jar = grams
- 14) Sample from segment jar to composite jar = grms

Total grams collected in composite jar # 10421 = 91.0 grams

Composite % Calculation Sheet

Date: 7/22/96 Technician: Ay L. Platt1) Segment jar # 9890:

$$\frac{5.4 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{5.9} \%$$

2) Segment jar # 9891:

$$\frac{5.1 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{5.6} \%$$

3) Segment jar # 9892:

$$\frac{10.1 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{11.1} \%$$

4) Segment jar # 9893:

$$\frac{9.7 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{10.7} \%$$

5) Segment jar # 9894:

$$\frac{9.9 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{10.9} \%$$

6) Segment jar # 9895:

$$\frac{10.0 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{11.0} \%$$

7) Segment jar # 9896:

$$\frac{9.9 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{10.9} \%$$

8) Segment jar # 9897:

$$\frac{10.2 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{11.2} \%$$

9) Segment jar # 10209:

$$\frac{4.9 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{5.4} \%$$

10) Segment jar # 10206:

$$\frac{5.7 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = \underline{6.3} \%$$

11) Segment jar # 10205:

$$\frac{4.9 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = 5.4 \%$$

12) Segment jar # 10204:

$$\frac{5.2 \text{ grams from segment jar to composite jar}}{91.0 \text{ Total grams in composite jar}} \times 100 = 5.7 \%$$

13) Segment jar # :

$$\frac{\text{grams from segment jar to composite jar}}{\text{Total grams in composite jar}} \times 100 = \text{ } \%$$

Chemist review: _____ Date _____

Composite Worksheet

Date: 7/9/96

Tank: U102

Sample
ID: 596700 2637
Auger/
Core: 144
Segment: 1 LH

Jar# 10232 (Bin 60)
Jar/Vial Size: 60 mL
Initial Weight: 134.2 g
Final Weight: 128.1 g
Net Weight: 6.1 g

Sample
ID: 596700 2638
Auger/
Core: 144
Segment: 2 LH

Jar# 10233 (Bin 60)
Jar/Vial Size: 60 mL
Initial Weight: 25.2 g
Final Weight: 189.2 g
Net Weight: 16.5 g

Sample
ID: 596700 2639
Auger/
Core: 144
Segment: 2 LH

Jar# 10235 (Bin 60)
Jar/Vial Size: 60 mL
Initial Weight: 21.3 g
Final Weight: 192.3 g
Net Weight: 14.0 g

Sample
ID: 596700 2640
Auger/
Core: 144
Segment: 3 LH

Jar# 10236 (Bin 60)
Jar/Vial Size: 60 mL
Initial Weight: 204.9 g
Final Weight: 194.1 g
Net Weight: 10.8 g

P.C. STEEN

Phone# 372-2495

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Start Time: _____
End Time: _____
Tests:
COMPOSO
HOMOGENIZO
BLACKENJO

Jar# 10436
Jar/Vial Size: 125 mL
Final Weight: 2243.0 g
Initial Weight: 128.0 g
Net Weight: 115.0 g (after final subsample added)

Homogenization Time (Min.): _____

Special Instructions: Composite as follows:

5 grams from each of the following: # 2638, 2639, 2640, 2641, 2787, 2788, 2789, 2790, 2791, 2792.

10 grams from each of the following: # 2638, 2639, 2640, 2641, 2787, 2788, 2789, 2790, 2791, 2792.

Composite Worksheet

Date: 7/19/96

Tank: 1102

P.C. STEEN

Phone# 372-2495

Sample
ID: 5967002641
Auger/
Core: 144
Segment: 3 LH

Sample
ID: 5967002787
Auger/
Core: 144
Segment: 4 LH

Sample
ID: 5967002788
Auger/
Core: 144
Segment: 4 LH

Sample
ID: 5967002789
Auger/
Core: 144
Segment: 5 LH

Jar#: 10238 (Bin 60)
Jar/Vial Size: 60 mL
Initial Weight: 177.1 g
Final Weight: 172.3 g
Net Weight: 10.8 g

Jar#: 10253 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 203.6 g
Final Weight: 188.8 g
Net Weight: 14.8 g

Jar#: 10254 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 205.6 g
Final Weight: 188.8 g
Net Weight: 16.8 g

Jar#: 10255 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 201.8 g
Final Weight: 189.7 g
Net Weight: 14.1 g

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See Parent
Jar# 10436
on Page #1

Special Instructions:

Composite Worksheet

Date: 7/19/96

Tank: W02

Sample
ID: 591002790
Auger/
Core: 144
Segment: 54H

Jar# 10256 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 205.1 g
Final Weight: 167.7 g
Net Weight: 17.4 g

Sample
ID: 591002791
Auger/
Core: 144
Segment: 64H

Jar# 10257 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 193.1 g
Final Weight: 180.6 g
Net Weight: 12.5 g

Sample
ID: 591002792
Auger/
Core: 144
Segment: 64H

Jar# 10258 (Bin 61)
Jar/Vial Size: 60 mL
Initial Weight: 210.1 g
Final Weight: 192.5 g
Net Weight: 17.6 g

Sample
ID: 591002845
Auger/
Core: 144
Segment: 64H

Jar# 9917 (Bin 62)
Jar/Vial Size: 60 mL
Initial Weight: 111.0 g
Final Weight: 104.6 g
Net Weight: 6.4 g

P.C. STEEN
Phone# 212-2495

See Parent
Jar# 10436
on Page #1

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Special Instructions:

Final Composite Calculation Sheet

Date: 7/23/96 Technician: A. J. L. L. L.Total number of jars used to build the composite: 12Composite Jar number: 10436 Jar size: 125 ml

- 1) Sample from segment jar 10232 to composite jar = 5.4 grams
- 2) Sample from segment jar 10233 to composite jar = 9.8 grams
- 3) Sample from segment jar 10235 to composite jar = 10.4 grams
- 4) Sample from segment jar 10236 to composite jar = 9.9 grams
- 5) Sample from segment jar 10238 to composite jar = 10.5 grams
- 6) Sample from segment jar 10253 to composite jar = 10.7 grams
- 7) Sample from segment jar 10254 to composite jar = 10.7 grams
- 8) Sample from segment jar 10255 to composite jar = 10.4 grams
- 9) Sample from segment jar 10256 to composite jar = 10.4 grams
- 10) Sample from segment jar 10257 to composite jar = 9.7 grams
- 11) Sample from segment jar 10258 to composite jar = 11.1 grams
- 12) Sample from segment jar 9917 to composite jar = 6.0 grms
- 13) Sample from segment jar 1 to composite jar = 1 grams
- 14) Sample from segment jar 1 to composite jar = 1 grms

Total grams collected in composite jar # 10436 = 115.0 grams

Composite % Calculation Sheet

Date: 7/23/96 Technician: A. L. L. L.1) Segment jar # 10232:

$$\frac{5.4 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{4.7} \%$$

2) Segment jar # 10233:

$$\frac{9.8 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{8.5} \%$$

3) Segment jar # 10235:

$$\frac{10.4 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.0} \%$$

4) Segment jar # 10236:

$$\frac{9.9 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{8.6} \%$$

5) Segment jar # 10238:

$$\frac{10.5 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.1} \%$$

6) Segment jar # 10253:

$$\frac{10.7 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.3} \%$$

7) Segment jar # 10254:

$$\frac{10.7 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.3} \%$$

8) Segment jar # 10255:

$$\frac{10.4 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.0} \%$$

9) Segment jar # 10256:

$$\frac{10.4 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.0} \%$$

10) Segment jar # 10257:

$$\frac{9.7 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{8.4} \%$$

11) Segment jar # 10258:

$$\frac{11.1 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{9.7} \%$$

12) Segment jar # 997:

$$\frac{6.0 \text{ grams from segment jar to composite jar}}{115.0 \text{ Total grams in composite jar}} \times 100 = \underline{5.2} \%$$

13) Segment jar # _____:

$$\frac{\text{grams from segment jar to composite jar}}{\text{Total grams in composite jar}} \times 100 = \underline{\hspace{1cm}} \%$$

Chemist review: _____ Date: _____

WHC-SD-WM-DP-189, REV. 1

ATTACHMENT 3

U-102 PUSH MODE CORE INTERNAL MEMO

WHC-SD-WM-DP-189, REV. 1

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**Westinghouse
Hanford Company****WHC-SD-WM-DP-189, REV. 1****Internal
Memo**

From: Data Assessment and Interpretation
Phone: 373-4098 R2-12
Date: August 21, 1996
Subject: DRAINABLE LIQUID TOC/TIC RESULTS OF TANK U-102

79400-96-163

To: F. H. Steen T6-06

cc: J. G. Kristofzski R2-12
A. D. Rice T6-06
R. R. Thompson R2-12
T. L. Tung T6-03
- TAH:JGK File/LB R2-12

Reference: WHC-SD-WM-TSAP-082, Rev. 1, "Tank 241-U-102
Push Mode Core Sampling and Analysis Plan,"
1996.

This letter is to justify that the drainable liquid TOC/TIC results of Tank U-102 generated by Furnace Oxidation methods LA-344-105/LA-622-102 is acceptable to satisfy the Organic DQO requirement.

According to the 222-S Laboratory chemist Mr. Rob Schroeder, the results from the Furnace Oxidation method is more accurate than the Hot Pursulfate method (LA-342-100). Since the compatibility DQO already ran the Furnace Oxidation method to obtain the liquid TOC/TIC results, there is no need to duplicate the Hot Pursulfate method for TOC/TIC data as requested by organic DQO stated in the tank U-102 TSAP (WHC-SD-WM-TSAP-082, Rev.1) (Reference).

T. A. Hu
Principal Scientist

klh

WHC-SD-WM-DP-189, REV. 1

PHOTOGRAPHS

WHC-SD-WM-DP-189, REV. 1

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U-102 Core 143 Segment #1

4/24/96

WHC-SD-WM-DP-189, REV. 1

U-102 Core 143 Segment 2

4-24-96

U-102 Core 143 Segment 3

4-24-96

U-102 Core 143 Segment 4

4-24-96

U-102 Core 143 Segment #5-

4/29/96

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U-102 Core 143 Segment #5A

4/29/96

11-102 Core 143 Segment 5B

5-7-96

U-102 Core 143 Segment 6

5-13-86

U-102 Core 143 Segment 6A

5-13-96

U-102 Core 144 Segment 1

5-6-96

U-102 Core 141 Segment 2

5-8-96

U-102 Core 144 Segment 3

5-6-96

U-1012 Core 144 Segment 4

5-13-96

11-102 Core 144, Segment 5

5-13-96

U-102 Core 144 Segment 6

5-15-96

U-102 Core 144 Segment 6A

5-14-96

44-102 Core 144 Field Blank

5-13-96

WMC-SD-WM-DP-189, REV. 1

EXTRUSION REPORTS

WHC-SD-WM-DP-189, REV. 1

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WHC-SD-WM-DP-189, REV. I

U-102 Core 143 Segment #1 Riser #19

Date: April 24, 1996
Sampler serial #: 95-310S
Sample #: 96-182
Cask serial #: C-1055
Logbook #: WHC-N-1341
Labcore #: S96T002186

Notes:

- * Hot Cell Temp 80.5 degrees F. Humidity 25 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.2 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * Collected approximately 80 mLs of drainable liquid. The liquid was yellow in color and clear. Extruded approximately 6 inches of solids. The solids were dark gray in color and the texture resembled a wet mixture of sludge and saltcake. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Liquids: Drainable liquid**
U-102 Core 143 Segment # 1 Riser 19:
 - Jar # 9853 (125 mL jar size)
 - 105.7 gram net weight
- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 1 Riser 19:
 - Jar # 9843 (250 mL jar size)
 - 171.5 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 143 Segment # 1 Riser 19:
 - Jar # 9852 (125 mL jar size)
 - 49.0 gram net weight

Notes:

WHC-SD-WM-DP-189, REV. I

A total of 326.2 grams of liquid and solids were collected. The
thru the drill string was 1.2 R/hr.

dose

U-102 Core 143 Segment #2 Riser #19

Date: April 24, 1996
Sampler serial #: 95-1355
Sample #: 96-183
Cask serial #: C-1040
Logbook #: WHC-N-1341
Labcore #: S96T002187

Notes:

- * Hot Cell Temp 80.6 degrees F. Humidity 20 %.
- * Check weights: 20 gms = 20.01 grams 500 gms = 500.02 grams
- * Dose rate through the drill string was 1.2 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 19 inches of solids. The solids were medium gray in color and the texture resembled a wet mixture of sludge and saltcake. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 2 Riser 19:
 - Jar # 9519 (250 mL jar size)
 - 228.9 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 143 Segment # 2 Riser 19:
 - Jar # 9847 (250 mL jar size)
 - 172.2 gram net weight

Notes:

WHC-SD-WM-DP-189, REV. I

A total of 401.1 grams of solids were collected. The dose thru the drill string was 1.2 R/hr.

WHC-SD-WM-DP-189, REV. 1

U-102 Core 143 Segment #3 Riser #19

Date: April 24, 1996
Sampler serial #: 95-107S
Sample #: 96-184
Cask serial #: C-1038
Logbook #: WHC-N-1341
Labcore #: S96T002188

Notes:

- * Hot Cell Temp 80.6 degrees F. Humidity 25 %.
- * Check weights: 20 gms = 19.99 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.5 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 19 inches of solids. The solids were medium gray in color and the texture resembled a wet mixture of sludge and saltcake. The solids were subsampled in half segments.

Subsample information:

- * Subsampled Solids: Upper Half Solids
U-102 Core 143 Segment # 3 Riser 19:
- Jar # 9846 (250 mL jar size)
- 202.3 gram net weight
- * Subsampled Solids: Lower Half Solids
U-102 Core 143 Segment # 3 Riser 19:
- Jar # 9844 (250 mL jar size)
- 198.6 gram net weight

Notes:

A total of 400.9 grams of solids were collected. The dose thru the drill string was 1.5 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 143 Segment #4 Riser #19

Date: April 24, 1996
Sampler serial #: 95-070S
Sample #: 96-185
Cask serial #: C-1042
Logbook #: WHC-N-1341
Labcore #: S96T002189

Notes:

- * Hot Cell Temp 80.6 degrees F. Humidity 25 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.02 grams
- * Dose rate through the drill string was 1.5 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 19 inches of solids. The solids were medium gray in color and the texture resembled a damp sludge. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 4 Riser 19:
 - Jar # 9840 (250 mL jar size)
 - 210.2 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 143 Segment # 4 Riser 19:
 - Jar # 9841 (250 mL jar size)
 - 206.2 gram net weight

Notes:

A total of 416.4 grams of solids were collected. The dose thru the drill string was 1.5 R/hr.

WHC-SD-WM-DP-189, REV. 1

U-102 Core 143 Segment #5 Riser #19

Date: April 29, 1996
 Sampler serial #: 95-068S
 Sample #: 96-186
 Cask serial #: 2004
 Logbook #: WHC-N-1341
 Labcore #: S96T002190

Notes:

- * Hot Cell Temp 77.9 degrees F. Humidity 28 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.02 grams
- * Dose rate through the drill string was 300 mR/hr.
- * Liner liquid: Collected approximately 140 mLs.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 5 inches of solids. The solids were medium gray in color and the texture resembled a damp crystalline saltcake. The solids were subsampled in one jar.

Subsample information:

- * **Subsampled Liquids: Liner Liquid**
U-102 Core 143 Segment # 5 Riser 19:
 - Jar # 9851 (125 mL jar size)
 - 109.4 gram net weight
- * **Subsampled Solids: Whole Segment**
U-102 Core 143 Segment # 5 Riser 19:
 - Jar # 9849 (125 mL jar size)
 - 80.6 gram net weight

Notes:

A total of 190.0 grams of liquid and solids were collected. The
 thru the drill string was 300 mR/hr.

dose

WHC-SD-WM-DP-189, REV. 1

U-102 Core 143 Segment #5A Riser #19

Date: April 29, 1996
Sampler serial #: 95-309S
Sample #: 96-186A
Cask serial #: C-1048
Logbook #: WHC-N-1341
Labcore #: S96T002191

Notes:

- * Hot Cell Temp 77.7 degrees F. Humidity 28 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 8 inches of solids. The solids were medium gray in color and the texture resembled a damp crystalline saltcake. The solids were subsampled in one jar.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 5A Riser 19:
 - Jar # 9833 (250 mL jar size)
 - 186.9 gram net weight

Notes:

A total of 186.9 grams of solids were collected. The dose thru the drill string was 1 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 143 Segment #5B Riser #19

Date: May 07, 1996
 Sampler serial #: 95-301S
 Sample #: 96-186B
 Cask serial #: C-1016
 Logbook #: WHC-N-1341
 Labcore #: S96T002509

Notes:

- * Hot Cell Temp 78.9 degrees F. Humidity 25 %.
- * Check weights: 20 gms = 19.94 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.7 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * , No drainable liquid. Extruded approximately 12 inches of solids. The solids were light to medium gray in color and the texture resembled a wet crystalline saltcake. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 5B Riser 19:
 - Jar # 10027 (125 mL jar size)
 - 108.4 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 143 Segment # 5B Riser 19:
 - Jar # 10029 (125 mL jar size)
 - 170.4 gram net weight

Notes:

A total of 278.8 grams of solids were collected. The dose thru the drill string was 1.7 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 143 Segment #6 Riser #19

Date: May 13, 1996
Sampler serial #: 94-340S
Sample #: 96-187
Cask serial #: C-1023
Logbook #: WHC-N-1341
Labcore #: S96T002626

Notes:

- * Hot Cell Temp 80.9 degrees F. Humidity 41 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.2 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 9 inches of solids. The solids were medium gray in color and the texture resembled a moist salt (M4). The solids were subsampled in one jar.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 143 Segment # 6 Riser 19:
 - Jar # 10043 (250 mL jar size)
 - 245.9 gram net weight

Notes:

A total of 245.9 grams of solids were collected. The dose thru the drill string was 1.2 R/hr.

U-102 Core 143 Segment #6A Riser #19

Date: May 13, 1996
Sampler serial #: 95-304S
Sample #: 96-187A
Cask serial #: C-1040
Logbook #: WHC-N-1341
Labcore #: S96T002627

Notes:

- * Hot Cell Temp 80.3 degrees F. Humidity 39 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 200 mR/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid or solids present (Void-V6).

Notes:

The dose rate thru the drill string was 200 mR/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #1 Riser #9

Date: May 06, 1996
 Sampler serial #: 95-342S
 Sample #: 96-189
 Cask serial #: C-2008
 Logbook #: WHC-N-1341
 Labcore #: S96T002492

Notes:

- * Hot Cell Temp 78.1 degrees F. Humidity 28 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.5 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * Collected approximately 250 mLs of drainable liquid. The liquid was grayish brown in color and opaque. Extruded approximately 3 inches of solids. The solids were grayish brown in color and the texture resembled a wet crystalline saltcake. The solids were subsampled into one jar.

Subsample information:

- * **Subsampled Liquids: Drainable liquid**
U-102 Core 144 Segment # 1 Riser 9:
 - Jar # 10013 (250 mL jar size)
 - 303.3 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 1 Riser 9:
 - Jar # 9460 (125 mL jar size)
 - 63.5 gram net weight

Notes:

A total of 366.8 grams of liquid and solids were collected. The dose thru the drill string was 1.5 R/hr.

dose

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #2 Riser #9

Date: May 06, 1996
Sampler serial #: 94-328S
Sample #: 96-190
Cask serial #: C-1053
Logbook #: WHC-N-1341
Labcore #: S96T002493

Notes:

- * Hot Cell Temp 78.2 degrees F. Humidity 28 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 16 inches of solids. The solids were medium gray in color and the texture resembled a damp crystalline saltcake. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 2 Riser 9:
 - Jar # 9462 (125 mL jar size)
 - 169.7 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 2 Riser 9:
 - Jar # 10024 (125 mL jar size)
 - 205.1 gram net weight

WHC-SD-WM-DP-189, REV. I

Notes:

A total of 374.8 grams of solids were collected. The dose thru the drill string was 1 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #3 Riser #9

Date: May 06, 1996
Sampler serial #: 94-042S
Sample #: 96-191
Cask serial #: C-1045
Logbook #: WHC-N-1341
Labcore #: S96T002494

Notes:

- * Hot Cell Temp 78.3 degrees F. Humidity 25 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 14 inches of solids. The solids were medium gray in color and the texture resembled a damp crystalline saltcake. The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 3 Riser 9:
 - Jar # 10023 (125 mL jar size)
 - 167.3 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 3 Riser 9:
 - Jar # 10026 (125 mL jar size)
 - 149.5 gram net weight

Notes:

A total of 316.8 grams of solids were collected. The dose thru the drill string was 1 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #4 Riser #9

Date: May 13, 1996
 Sampler serial #: 94-336S
 Sample #: 96-192
 Cask serial #: 5-G
 Logbook #: WHC-N-1341
 Labcore #: S96T002628

Notes:

- * Hot Cell Temp 81.2 degrees F. Humidity 41 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.5 R/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 19 inches of solids. The solids were medium gray in color and the texture resembled a wet salt (M3). The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 4 Riser 9:
 - Jar # 10039 (250 mL jar size)
 - 234.6 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 4 Riser 9:
 - Jar # 10035 (250 mL jar size)
 - 224.4 gram net weight

Notes:

A total of 459.0 grams of solids were collected. The dose thru the drill string was 1.5 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #5 Riser #9

Date: May 13, 1996
 Sampler serial #: 95-160S
 Sample #: 96-193
 Cask serial #: 58
 Logbook #: WHC-N-1341
 Labcore #: S96T002629

Notes:

- * Hot Cell Temp 82.1 degrees F. Humidity 41 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.6 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 18 inches of solids. The solids were medium gray in color and the texture resembled a moist salt (M4). The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 5 Riser 9:
 - Jar # 10042 (250 mL jar size)
 - 182.8 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 5 Riser 9:
 - Jar # 10089 (250 mL jar size)
 - 237.3 gram net weight

Notes:

A total of 420.1 grams of solids were collected. The dose thru the drill string was 1.6 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #6 Riser #9

Date: May 13, 1996
Sampler serial #: 95-167S
Sample #: 96-194
Cask serial #: C-1032
Logbook #: WHC-N-1341
Labcore #: S96T002630

Notes:

- * Hot Cell Temp 80.1 degrees F. Humidity 36 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was 1.7 R/hr.
- * Liner liquid: < 5 mLs, did not retain.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 13 inches of solids. The solids were light to medium gray in color and the texture resembled a moist salt (M4). The solids were subsampled in half segments.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 6 Riser 9:
 - Jar # 10051 (125 mL jar size)
 - 134.6 gram net weight
- * **Subsampled Solids: Lower Half Solids**
U-102 Core 144 Segment # 6 Riser 9:
 - Jar # 10057 (125 mL jar size)
 - 161.2 gram net weight

Notes:

A total of 295.8 grams of solids were collected. The dose thru the drill string was 1.7 R/hr.

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Segment #6A Riser #9

Date: May 14, 1996
Sampler serial #: 95-308S
Sample #: 96-194A
Cask serial #: 71
Logbook #: WHC-N-1341
Labcore #: S96T002510

Notes:

- * Hot Cell Temp 79.4 degrees F. Humidity 33 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.02 grams
- * Dose rate through the drill string was 400 mR/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * No drainable liquid. Extruded approximately 1 inch of solids. The solids were medium brown in color and the texture resembled a wet salt (M3). The solids were subsampled in one jar.

Subsample information:

- * **Subsampled Solids: Upper Half Solids**
U-102 Core 144 Segment # 6A Riser 9:
- Jar # 9917 (60 mL jar size)
- 31.2 gram net weight

Notes:

A total of 31.2 grams of solids were collected. The dose thru the string was 400 mR/hr.

drill

WHC-SD-WM-DP-189, REV. I

U-102 Core 144 Field Blank Riser #9

Date: May 13, 1996
Sampler serial #: 95-1555
Sample #: Field Blank
Cask serial #: C-1046
Logbook #: WHC-N-1341
Labcore #: S96T002631

Notes:

- * Hot Cell Temp 81.2 degrees F. Humidity 41 %.
- * Check weights: 20 gms = 20.00 grams 500 gms = 500.01 grams
- * Dose rate through the drill string was < 0.5 mR/hr.
- * Liner liquid: None observed.
- * Sampler valve closed before and after cutting cables.
- * Extruded sample and performed photography.

Sample information:

- * Collected approximately 250 mLs of drainable liquid. The liquid (L1) was clear and colorless. No solids were present. The liquid was subsampled in one jar.

Subsample information:

- * **Subsampled Liquids: Drainable Liquid**
U-102 Core 144 Field Blank Riser 9:
- Jar # 10050 (250 mL jar size)
- 212.6 gram net weight

Notes:

A total of 212.6 grams of liquid was collected. The dose rate thru the drill string was < 0.5 mR/hr.

WHC-SD-WM-DP-189, REV. 1

SAMPLE HANDLING

WHC-SD-WM-DP-189, REV. 1

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LABCORE Data Entry Template for Worklist#

8020

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod 80

Worklist Comment: U-102 C143 SEG # 1 RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002186	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>80</u>		ml
96000536	U-102	4 SAMPLE	S96T002186	0	DLIQWT01	SOLID	<u>N/A</u>	<u>105.7</u>		g
96000536	U-102	5 SAMPLE	S96T002186	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.32</u>		g/ml
96000536	U-102	6 SAMPLE	S96T002186	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002186	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
96000536	U-102	8 SAMPLE	S96T002186	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1391</u>		
96000536	U-102	9 SAMPLE	S96T002186	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002186	0	SLDWT-01	SOLID	<u>N/A</u>	<u>220.5</u>		g
96000536	U-102	11 SAMPLE	S96T002186	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002186	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8020

EC 4-29-96
Analyst Signature Date

EC 4-29-96
Analyst Signature Date

Reviewed by Andres B. Benay 5-2-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8022

Analyst: CR Instrument: BA000 Book # NAMethod: LO-160-103 Rev/Mod 10

Worklist Comment: U-102 C143 SEG # 2 RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.01</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.02</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002187	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>C</u>		ml
96000536	U-102	4 SAMPLE	S96T002187	0	DLIQWT01	SOLID	<u>N/A</u>	<u>C</u>		g
96000536	U-102	5 SAMPLE	S96T002187	0	EST.G/ML	SOLID	<u>N/A</u>	<u>C</u>		g/ml
96000536	U-102	6 SAMPLE	S96T002187	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002187	0	LLIQWT01	SOLID	<u>N/A</u>	<u>C</u>		g
96000536	U-102	8 SAMPLE	S96T002187	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002187	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002187	0	SLDWT-01	SOLID	<u>N/A</u>	<u>401.1</u>		g
96000536	U-102	11 SAMPLE	S96T002187	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002187	0	ORGVOL01	SOLID	<u>N/A</u>	<u>C</u>		ml

Final page for worklist #

8022

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8023

Analyst: CC Instrument: BA000 Book # 0

Method: LO-160-103 Rev/Mod 80

Worklist Comment: U-102 C143 SEG # 3 RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002188	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000536	U-102	4 SAMPLE	S96T002188	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	5 SAMPLE	S96T002188	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000536	U-102	6 SAMPLE	S96T002188	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002188	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	8 SAMPLE	S96T002188	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002188	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002188	0	SLDWT-01	SOLID	<u>N/A</u>	<u>400.9</u>		g
96000536	U-102	11 SAMPLE	S96T002188	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002188	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8023

CC 4-29-96
Analyst Signature Date

CC 4-29-96
Analyst Signature Date

Reviewed by Arthur B. Bony 5-2-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8024

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-102 C143 SEG # 4 RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.02</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002189	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
96000536	U-102	4 SAMPLE	S96T002189	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	5 SAMPLE	S96T002189	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000536	U-102	6 SAMPLE	S96T002189	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002189	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	8 SAMPLE	S96T002189	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002189	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000536	U-102	10 SAMPLE	S96T002189	0	SLDWT-01	SOLID	<u>N/A</u>	<u>416.4</u>		g
96000536	U-102	11 SAMPLE	S96T002189	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002189	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8024

EC 4-29-96
Analyst Signature Date

EC 4-29-96
Analyst Signature Date

Reviewed by Arthur B. Benay 5-2-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8026

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-102 C143 SEG # 5 RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.02</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002190	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000536	U-102	4 SAMPLE	S96T002190	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	5 SAMPLE	S96T002190	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000536	U-102	6 SAMPLE	S96T002190	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002190	0	LLIQWT01	SOLID	<u>N/A</u>	<u>100.4</u>	<u>109.4</u>	g
96000536	U-102	8 SAMPLE	S96T002190	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002190	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002190	0	SLDWT-01	SOLID	<u>N/A</u>	<u>80.6</u>		g
96000536	U-102	11 SAMPLE	S96T002190	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002190	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8026

Analyst Signature EC Date 5-1-96

Analyst Signature EC Date 5-1-96

Reviewed by AB 5-2-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8027

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod DO

Worklist Comment: U-102 C143 SEG # 5A RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002191	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000536	U-102	4 SAMPLE	S96T002191	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	5 SAMPLE	S96T002191	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000536	U-102	6 SAMPLE	S96T002191	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002191	0	LLIQWT01	SOLID	<u>N/A</u>	<u>LS</u>		g
96000536	U-102	8 SAMPLE	S96T002191	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002191	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002191	0	SLDWT-01	SOLID	<u>N/A</u>	<u>186.9</u>		g
96000536	U-102	11 SAMPLE	S96T002191	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002191	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8027

EC 5-1-96
Analyst Signature Date

EC 5-1-96
Analyst Signature Date

Reviewed by Allen B. Bandy 5-2-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8312

Analyst: CE Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod 60

Worklist Comment: U-102 C144 SEG # 1 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>1.00</u>	<u>5-6-96</u>
96000569	U-102	3 SAMPLE	S96T002492	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>250</u>		mL
96000569	U-102	4 SAMPLE	S96T002492	0	DLIQWT01	SOLID	<u>N/A</u>	<u>303.3</u>		g
96000569	U-102	5 SAMPLE	S96T002492	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.21</u>		g/mL
96000569	U-102	6 SAMPLE	S96T002492	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7 SAMPLE	S96T002492	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	8 SAMPLE	S96T002492	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000569	U-102	9 SAMPLE	S96T002492	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000569	U-102	10 SAMPLE	S96T002492	0	SLDWT-01	SOLID	<u>N/A</u>	<u>63.5</u>		g
96000569	U-102	11 SAMPLE	S96T002492	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12 SAMPLE	S96T002492	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8312

CE 5-6-96
Analyst Signature Date

CE 5-6-96
Analyst Signature Date

Reviewed by Brian B. Benz 5-7-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8313

Analyst: EL Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod DO

Worklist Comment: U-102 C144 SEG # 2 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000569	U-102	3 SAMPLE	S96T002493	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000569	U-102	4 SAMPLE	S96T002493	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	5 SAMPLE	S96T002493	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000569	U-102	6 SAMPLE	S96T002493	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7 SAMPLE	S96T002493	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
96000569	U-102	8 SAMPLE	S96T002493	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1241</u>		
96000569	U-102	9 SAMPLE	S96T002493	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000569	U-102	10 SAMPLE	S96T002493	0	SLDWT-01	SOLID	<u>N/A</u>	<u>374.8</u>		g
96000569	U-102	11 SAMPLE	S96T002493	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12 SAMPLE	S96T002493	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8313

Analyst Signature EL Date 5-6-96

Analyst Signature EL Date 5-6-96

Reviewed by Arthur B. By 5-7-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8314

Analyst: CE Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-102 C144 SEG # 3 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000569	U-102	3 SAMPLE	S96T002494	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
96000569	U-102	4 SAMPLE	S96T002494	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	5 SAMPLE	S96T002494	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000569	U-102	6 SAMPLE	S96T002494	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7 SAMPLE	S96T002494	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	8 SAMPLE	S96T002494	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000569	U-102	9 SAMPLE	S96T002494	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000569	U-102	10 SAMPLE	S96T002494	0	SLDWT-01	SOLID	<u>N/A</u>	<u>316.8</u>		g
96000569	U-102	11 SAMPLE	S96T002494	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12 SAMPLE	S96T002494	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8314

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8412

Analyst: EL Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-102 C143 SEG # 5B RISER 19 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.94</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000536	U-102	3 SAMPLE	S96T002509	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000536	U-102	4 SAMPLE	S96T002509	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	5 SAMPLE	S96T002509	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000536	U-102	6 SAMPLE	S96T002509	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	7 SAMPLE	S96T002509	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000536	U-102	8 SAMPLE	S96T002509	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000536	U-102	9 SAMPLE	S96T002509	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000536	U-102	10 SAMPLE	S96T002509	0	SLDWT-01	SOLID	<u>N/A</u>	<u>278.8</u>		g
96000536	U-102	11 SAMPLE	S96T002509	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000536	U-102	12 SAMPLE	S96T002509	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8412

EL 5-8-96
Analyst Signature Date

EL 5-8-96
Analyst Signature Date

Reviewed by: Julie B. Brey 5-8-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

174

LABCORE Data Entry Template for Worklist#

8414

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod DO

Worklist Comment: U-102 C144 SEG # 6A RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.02</u>	<u>N/A</u>	
96000569	U-102	3 SAMPLE	S96T002510	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
96000569	U-102	4 SAMPLE	S96T002510	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	5 SAMPLE	S96T002510	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000569	U-102	6 SAMPLE	S96T002510	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7 SAMPLE	S96T002510	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	8 SAMPLE	S96T002510	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1241</u>		
96000569	U-102	9 SAMPLE	S96T002510	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000569	U-102	10 SAMPLE	S96T002510	0	SLDWT-01	SOLID	<u>N/A</u>	<u>31.2</u>		g
96000569	U-102	11 SAMPLE	S96T002510	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12 SAMPLE	S96T002510	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8414

EC 5-14-96
Analyst Signature Date

EC 5-14-96
Analyst Signature Date

Reviewed by Anne B. Bernat 5-15-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8604

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod 820

Worklist Comment: U-102 C144 SEG # 5 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000569	U-102	3 SAMPLE	S96T002629	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
96000569	U-102	4 SAMPLE	S96T002629	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	5 SAMPLE	S96T002629	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000569	U-102	6 SAMPLE	S96T002629	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7 SAMPLE	S96T002629	0	LLIQWT01	SOLID	<u>N/A</u>	<u>LS</u>		g
96000569	U-102	8 SAMPLE	S96T002629	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000569	U-102	9 SAMPLE	S96T002629	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000569	U-102	10 SAMPLE	S96T002629	0	SLDWT-01	SOLID	<u>N/A</u>	<u>420.1</u>		g
96000569	U-102	11 SAMPLE	S96T002629	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12 SAMPLE	S96T002629	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8604

Analyst Signature

Date

Analyst Signature

Date

Reviewed by Arthur R. Benay 5-14-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8607

Analyst: EL Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod 80

Worklist Comment: U-102 C144 SEG # 6 RISER 9 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>26</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000569	U-102	3	SAMPLE	S96T002630	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000569	U-102	4	SAMPLE	S96T002630	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	5	SAMPLE	S96T002630	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000569	U-102	6	SAMPLE	S96T002630	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7	SAMPLE	S96T002630	0		LLIQWT01	SOLID	<u>N/A</u>	<u>25</u>		g
96000569	U-102	8	SAMPLE	S96T002630	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000569	U-102	9	SAMPLE	S96T002630	0		SLDVOL01	SOLID	<u>N/A</u>	<u>N/A</u>		ml
96000569	U-102	10	SAMPLE	S96T002630	0		SLDWT-01	SOLID	<u>N/A</u>	<u>295.8</u>		g
96000569	U-102	11	SAMPLE	S96T002630	0		APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12	SAMPLE	S96T002630	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

8607

EL 5-14-96
Analyst Signature Date

EL 5-14-96
Analyst Signature Date

Reviewed by John B. Berry 5-14-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8614

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B0

Worklist Comment: U-102 C144 FIELD BLANK RISER 9 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000569	U-102	3	SAMPLE	S96T002631	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>250</u>		mL
96000569	U-102	4	SAMPLE	S96T002631	0		DLIQWT01	SOLID	<u>N/A</u>	<u>212.6</u>		g
96000569	U-102	5	SAMPLE	S96T002631	0		EST.G/ML	SOLID	<u>N/A</u>	<u>.85</u>		g/mL
96000569	U-102	6	SAMPLE	S96T002631	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	7	SAMPLE	S96T002631	0		LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	8	SAMPLE	S96T002631	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1341</u>		
96000569	U-102	9	SAMPLE	S96T002631	0		SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000569	U-102	10	SAMPLE	S96T002631	0		SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
96000569	U-102	11	SAMPLE	S96T002631	0		APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000569	U-102	12	SAMPLE	S96T002631	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

8614

EC 5-14-96 EC 5-14-96
Analyst Signature Date Analyst Signature Date
Reviewed by Andre B. Benally 5-14-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

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WHC-SD-WM-DP-189, REV. 1

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WHC-SD-WM-DP-189, REV. 1

SAMPLE PREPERATIONS

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LABCORE Data Entry Template for Worklist#

8813

Analyst: QAM Instrument: FUS01 Book # _____

Method: LA-549-141 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-1UH,1LH,2UH-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.150</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE	S96T002438 O F		FUSION01	SOLID	<u>N/A</u>	<u>2.2032</u>		g/L
		<u>.5508g → .250l</u>								
96000536	U-102	3 SAMPLE	S96T002438 O F		DOSE-02	SOLID	<u>N/A</u>	<u>90</u>		mrad/hour
96000536	U-102	4 DUP	S96T002438 O F		FUSION01	SOLID	<u>2.2032</u>	<u>2.1484</u>	<u>N/A</u>	g/L
		<u>.5371g → .250l</u>								
96000536	U-102	5 DUP	S96T002438 O F		DOSE-02	SOLID	<u>90</u>	<u>90</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6 SAMPLE	S96T002443 O F		FUSION01	SOLID	<u>N/A</u>	<u>2.0528</u>		g/L
		<u>.5132g → .250l</u>								
96000536	U-102	7 SAMPLE	S96T002443 O F		DOSE-02	SOLID	<u>N/A</u>	<u>40</u>		mrad/hour
96000536	U-102	8 DUP	S96T002443 O F		FUSION01	SOLID	<u>2.0528</u>	<u>2.1940</u>	<u>N/A</u>	g/L
		<u>.5385g → .250l</u>								
96000536	U-102	9 DUP	S96T002443 O F		DOSE-02	SOLID	<u>40</u>	<u>40</u>	<u>N/A</u>	mrad/hour
96000536	U-102	10 SAMPLE	S96T002444 O F		FUSION01	SOLID	<u>N/A</u>	<u>2.0256</u>		g/L
		<u>.5069g → .250l</u>								
96000536	U-102	11 SAMPLE	S96T002444 O F		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	12 DUP	S96T002444 O F		FUSION01	SOLID	<u>2.0256</u>	<u>2.0556</u>	<u>N/A</u>	g/L
		<u>.5139g → .250l</u>								
96000536	U-102	13 DUP	S96T002444 O F		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

8813

QAMurphy 6-4-96
Analyst Signature Date

Susan Bee 6/4/96
Analyst Signature Date

596T002324 → 596T002438
2329 → 2443
2332 → 2444

Data Entry Comments:

40me con H2O3, < 10% O2

Reviewed by RkTullis
6/4/96

LABCORE Data Entry Template for Worklist#

8814

Analyst: QAM Instrument: FUS01 SN116355 Book # _____

Method: LA-549-141 Rev/Mod F-0

Worklist Comment: TANK# U-102,CORE 143,SEG-2LH,3UH,3LH,FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE	S96T002445	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0256</u>		g/L
		<u>.5064g → .2501</u>								
96000536	U-102	3 SAMPLE	S96T002445	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrad/hour
96000536	U-102	4 DUP	S96T002445	0 F	FUSION01	SOLID	<u>2.0256</u>	<u>2.0728</u>	<u>N/A</u>	g/L
		<u>.5182g → .2501</u>								
96000536	U-102	5 DUP	S96T002445	0 F	DOSE-02	SOLID	<u>60</u>	<u>60</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6 SAMPLE	S96T002446	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.3392</u>		g/L
		<u>.5848g → .2501</u>								
96000536	U-102	7 SAMPLE	S96T002446	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>75</u>		mrad/hour
96000536	U-102	8 DUP	S96T002446	0 F	FUSION01	SOLID	<u>2.3392</u>	<u>2.3541</u>	<u>N/A</u>	g/L
		<u>.5886g → .2501</u>								
96000536	U-102	9 DUP	S96T002446	0 F	DOSE-02	SOLID	<u>75</u>	<u>75</u>	<u>N/A</u>	mrad/hour
96000536	U-102	10 SAMPLE	S96T002447	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0168</u>		g/L
		<u>.5042g → .2501</u>								
96000536	U-102	11 SAMPLE	S96T002447	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>70</u>		mrad/hour
96000536	U-102	12 DUP	S96T002447	0 F	FUSION01	SOLID	<u>2.0168</u>	<u>2.0536</u>	<u>N/A</u>	g/L
		<u>.5134g → .2501</u>								
96000536	U-102	13 DUP	S96T002447	0 F	DOSE-02	SOLID	<u>70</u>	<u>70</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

8814

Analyst Signature QAMurphy Date 6-4-96

Analyst Signature Susan Dee Date 6/04/96

S96T00 2335 → S96T00 2445
2338 → 2446
2341 → 2447

Data Entry Comments: 40ml con HNO3, <10% solids

Reviewed by PK Fuller
6/4/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8815

Analyst: QAM Instrument: FUS01 ANAL Book # _____

Method: LA-549-141 Rev/Mod F-D

Worklist Comment: TANK# U-102,CORE 143,SEG-4UH,4LH,5WS-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE <u>0.4849 g</u>	S96T002448 O F <u>→ .2501</u>		FUSION01	SOLID	<u>N/A</u>	<u>1.9396</u>		g/L
96000536	U-102	3 SAMPLE	S96T002448 O F		DOSE-02	SOLID	<u>N/A</u>	<u>90</u>		mrad/hour
96000536	U-102	4 DUP <u>0.4185 g</u>	S96T002448 O F <u>→ .2501</u>		FUSION01	SOLID	<u>1.9396</u>	<u>1.9140</u>	<u>N/A</u>	g/L
96000536	U-102	5 DUP	S96T002448 O F		DOSE-02	SOLID	<u>90</u>	<u>100</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6 SAMPLE <u>0.4560 g</u>	S96T002449 O F <u>→ .2501</u>		FUSION01	SOLID	<u>N/A</u>	<u>1.8240</u>		g/L
96000536	U-102	7 SAMPLE	S96T002449 O F		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	8 DUP <u>0.4329 g</u>	S96T002449 O F <u>→ .2501</u>		FUSION01	SOLID	<u>1.8240</u>	<u>1.7316</u>	<u>N/A</u>	g/L
96000536	U-102	9 DUP	S96T002449 O F		DOSE-02	SOLID	<u>50</u>	<u>75</u>	<u>N/A</u>	mrad/hour
96000536	U-102	10 SAMPLE <u>0.4734 g</u>	S96T002518 O F <u>→ .2501</u>		FUSION01	SOLID	<u>N/A</u>	<u>1.8936</u>		g/L
96000536	U-102	11 SAMPLE	S96T002518 O F		DOSE-02	SOLID	<u>N/A</u>	<u>25</u>		mrad/hour
96000536	U-102	12 DUP <u>0.5275 g</u>	S96T002518 O F <u>→ .2501</u>		FUSION01	SOLID	<u>1.8936</u>	<u>2.1100</u>	<u>N/A</u>	g/L
96000536	U-102	13 DUP	S96T002518 O F		DOSE-02	SOLID	<u>25</u>	<u>40</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

8815

Analyst Signature QAMurphy Date 6-6-96

Analyst Signature Susan Bee Date 6/07/96

596T002344 → 596T002448
2347 → 2449
2500 → 2518

Data Entry Comments:

40ml con HNO₃ < 1000 c/s
HPT - Charlene Cooper

Reviewed by RK Fuller
6/10/96

LABCORE Data Entry Template for Worklist#

8816

Analyst: CHAM Instrument: FUS01 AL11026 Book # _____

Method: LA-549-141 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-5A UH,5B UH,5B LH,6UH-FUSION01 RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000536	U-102	2	SAMPLE	S96T002521	0	F	FUSION01	SOLID	<u>N/A</u>	<u>1.8792</u>		g/L
			<u>0.4698g → .2501</u>									
96000536	U-102	3	SAMPLE	S96T002521	0	F	DOSE-02	SOLID	<u>N/A</u>	<u>40</u>		mrad/hour
96000536	U-102	4	DUP	S96T002521	0	F	FUSION01	SOLID	<u>1.8792</u>	<u>1.7624</u>	<u>N/A</u>	g/L
			<u>0.4406g → .2501</u>									
96000536	U-102	5	DUP	S96T002521	0	F	DOSE-02	SOLID	<u>40</u>	<u>40</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6	SAMPLE	S96T002671	0	F	FUSION01	SOLID	<u>N/A</u>	<u>1.8580</u>		g/L
			<u>0.4645g → .2501</u>									
96000536	U-102	7	SAMPLE	S96T002671	0	F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrad/hour
96000536	U-102	8	DUP	S96T002671	0	F	FUSION01	SOLID	<u>1.8580</u>	<u>1.9408</u>	<u>N/A</u>	g/L
			<u>0.4852g → .2501</u>									
96000536	U-102	9	DUP	S96T002671	0	F	DOSE-02	SOLID	<u>60</u>	<u>50</u>	<u>N/A</u>	mrad/hour
96000536	U-102	10	SAMPLE	S96T002672	0	F	FUSION01	SOLID	<u>N/A</u>	<u>2.0448</u>		g/L
			<u>0.5112g → .2501</u>									
96000536	U-102	11	SAMPLE	S96T002672	0	F	DOSE-02	SOLID	<u>N/A</u>	<u>90</u>		mrad/hour
96000536	U-102	12	DUP	S96T002672	0	F	FUSION01	SOLID	<u>2.0448</u>	<u>2.0420</u>	<u>N/A</u>	g/L
			<u>0.5105g → .2501</u>									
96000536	U-102	13	DUP	S96T002672	0	F	DOSE-02	SOLID	<u>90</u>	<u>75</u>	<u>N/A</u>	mrad/hour
96000536	U-102	14	SAMPLE	S96T002757	0	F	FUSION01	SOLID	<u>N/A</u>	<u>2.1976</u>		g/L
			<u>0.5494g → .2501</u>									
96000536	U-102	15	SAMPLE	S96T002757	0	F	DOSE-02	SOLID	<u>N/A</u>	<u>75</u>		mrad/hour
96000536	U-102	16	DUP	S96T002757	0	F	FUSION01	SOLID	<u>2.1976</u>	<u>2.0312</u>	<u>N/A</u>	g/L
			<u>0.5078g → .2501</u>									
96000536	U-102	17	DUP	S96T002757	0	F	DOSE-02	SOLID	<u>75</u>	<u>50</u>	<u>N/A</u>	mrad/hour

S96T002501 → S96T002521
2665 → 2671
2666 → 2672
2755 → 2757

Data Entry Comments:

40ml con HNO₃, <1070 ODLs
HPT- Charlene Cooper

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8816

GROUP PROJECT S TYPE SAMPLE# R A -----TEST----- MATRIX ACTUAL FOUND DL UNIT

Final page for worklist #

8816

AK Murphy 6-6-96
Analyst Signature Date

Susan Bu 6/07/96
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9041

Analyst: Sham/Elle Instrument: FUS01 AU1066 Book # N/AMethod: LA-549-141 Rev/Mod F-0

Worklist Comment: TANK#U-102,CORE 144,SEG 1LH,2UH,2LH-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000569	U-102	2 SAMPLE	S96T002648 0 F		FUSION01	SOLID	<u>N/A</u>	<u>2.0756</u>		g/L
		<u>.5189g → .2501</u>						<u>100</u>		
96000569	U-102	3 SAMPLE	S96T002648 0 F		DOSE-02	SOLID	<u>N/A</u>	<u>206</u>		mrad/hour
96000569	U-102	4 DUP	S96T002648 0 F		FUSION01	SOLID	<u>2.0756</u>	<u>2.0349</u>	<u>N/A</u>	g/L
		<u>.5081g → .2501</u>						<u>100</u>	<u>110</u>	
96000569	U-102	5 DUP	S96T002648 0 F		DOSE-02	SOLID	<u>100</u>	<u>110</u>	<u>N/A</u>	mrad/hour
96000569	U-102	6 SAMPLE	S96T002654 0 F		FUSION01	SOLID	<u>N/A</u>	<u>2.1652</u>		g/L
		<u>.5413g → .2501</u>						<u>60</u>		
96000569	U-102	7 SAMPLE	S96T002654 0 F		DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrad/hour
96000569	U-102	8 DUP	S96T002654 0 F		FUSION01	SOLID	<u>2.1652</u>	<u>2.2289</u>	<u>N/A</u>	g/L
		<u>.5571g → .2501</u>						<u>60</u>	<u>70</u>	
96000569	U-102	9 DUP	S96T002654 0 F		DOSE-02	SOLID	<u>60</u>	<u>70</u>	<u>N/A</u>	mrad/hour
96000569	U-102	10 SAMPLE	S96T002649 0 F		FUSION01	SOLID	<u>N/A</u>	<u>2.0528</u>		g/L
		<u>.5132g → .2501</u>						<u>50</u>		
96000569	U-102	11 SAMPLE	S96T002649 0 F		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000569	U-102	12 DUP	S96T002649 0 F		FUSION01	SOLID	<u>2.0528</u>	<u>2.1196</u>	<u>N/A</u>	g/L
		<u>.5249g → .2501</u>						<u>50</u>	<u>50</u>	
96000569	U-102	13 DUP	S96T002649 0 F		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

9041

Susan Bee 06-12-96
Analyst Signature Date

A. Simbel 06-11-96
Analyst Signature Date

S96T002632 → 2648
2646 → 2654
2633 → 2649
Reviewed by RK Fuller
6/12/96

Data Entry Comments:

10 ml of 20% 1 & 10 ml of 10% added to all samples. All samples
have slight yellow coloring but are clear. 0% Solids.
ZPT ID: Bob Clements 6/16/96
Labeled as "GROUP 1" 2020T: 10mrad 120mr "1"
2020T: 4mrad 4mr

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number.
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9042

Analyst: QAM/llc Instrument: FUS01 ACU066 Book # N/A

Method: LA-549-141 Rev/Mod F-O

Worklist Comment: TANK#U-102,CORE 144,SEG 3UH,3LH,4UH-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000569	U-102	2 SAMPLE	S96T002655	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0380</u>		g/L
			<u>.5095g → .2501</u>							
96000569	U-102	3 SAMPLE	S96T002655	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>25</u>		mrad/hour
96000569	U-102	4 DUP	S96T002655	0 F	FUSION01	SOLID	<u>2.0380</u>	<u>2.2188</u>	<u>N/A</u>	g/L
			<u>.5547g → .2501</u>							
96000569	U-102	5 DUP	S96T002655	0 F	DOSE-02	SOLID	<u>25</u>	<u>40</u>	<u>N/A</u>	mrad/hour
96000569	U-102	6 SAMPLE	S96T002662	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.2112</u>		g/L
			<u>.5528g → .2501</u>							
96000569	U-102	7 SAMPLE	S96T002662	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>30</u>		mrad/hour
96000569	U-102	8 DUP	S96T002662	0 F	FUSION01	SOLID	<u>2.2112</u>	<u>2.2268</u>	<u>N/A</u>	g/L
			<u>.5567g → .2501</u>							
96000569	U-102	9 DUP	S96T002662	0 F	DOSE-02	SOLID	<u>30</u>	<u>30</u>	<u>N/A</u>	mrad/hour
96000569	U-102	10 SAMPLE	S96T002793	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0892</u>		g/L
			<u>.5223g → .2501</u>							
96000569	U-102	11 SAMPLE	S96T002793	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrad/hour
96000569	U-102	12 DUP	S96T002793	0 F	FUSION01	SOLID	<u>2.0892</u>	<u>2.0100</u>	<u>N/A</u>	g/L
			<u>.5025g → .2501</u>							
96000569	U-102	13 DUP	S96T002793	0 F	DOSE-02	SOLID	<u>60</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

9042

Susan Bee 6/12/96
Analyst Signature Date

A. Lambert 06-11-96
Analyst Signature Date

S96T002647 → 2655
2636 → 2662
2775 → 2793

Reviewed by RK Felt
6/12/96

Data Entry Comments:

All samples have 10 ml Con HCL & 15 ml Con H₂O. Samples 55 & 62 are light yellow in color and are O.K. solids. Sample 93 is clear & no solids. HPT is: Bob Clements 6-11-96 12:00: 4 mrad/h, 20:00: 4 mrad/h
Labeled as "GROUP 2"

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9043

Analyst: QAM Instrument: FUS01 AL1066 Book # 1/1

Method: LA-549-141 Rev/Mod F-O

Worklist Comment: TANK#U-102,CORE 144,SEG 4LH,5UH,5LH-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP		FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	<u>g/L</u>
96000569	U-102	2	SAMPLE S96T002796	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0572</u>		<u>g/L</u>
			<u>-5143g → .2500</u>							
96000569	U-102	3	SAMPLE S96T002796	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		<u>mrad/hour</u>
96000569	U-102	4	DUP S96T002796	0 F	FUSION01	SOLID	<u>2.0572</u>	<u>2.1123</u>	<u>N/A</u>	<u>g/L</u>
			<u>-5282g → .2501</u>							
96000569	U-102	5	DUP S96T002796	0 F	DOSE-02	SOLID	<u>60</u>	<u>60</u>	<u>N/A</u>	<u>mrad/hour</u>
96000569	U-102	6	SAMPLE S96T002794	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0804</u>		<u>g/L</u>
			<u>-5201g → .2501</u>							
96000569	U-102	7	SAMPLE S96T002794	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>120</u>		<u>mrad/hour</u>
96000569	U-102	8	DUP S96T002794	0 F	FUSION01	SOLID	<u>2.0804</u>	<u>2.0836</u>	<u>N/A</u>	<u>g/L</u>
			<u>-5209g → .2501</u>							
96000569	U-102	9	DUP S96T002794	0 F	DOSE-02	SOLID	<u>120</u>	<u>125</u>	<u>N/A</u>	<u>mrad/hour</u>
96000569	U-102	10	SAMPLE S96T002797	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0360</u>		<u>g/L</u>
			<u>-5090g → .2501</u>							
96000569	U-102	11	SAMPLE S96T002797	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>75</u>		<u>mrad/hour</u>
96000569	U-102	12	DUP S96T002797	0 F	FUSION01	SOLID	<u>2.0360</u>	<u>2.1212</u>	<u>N/A</u>	<u>g/L</u>
			<u>-5303g → .2501</u>							
96000569	U-102	13	DUP S96T002797	0 F	DOSE-02	SOLID	<u>75</u>	<u>75</u>	<u>N/A</u>	<u>mrad/hour</u>

Final page for worklist #

9043

Analyst Signature Susan Bee Date 6/12/96

Analyst Signature A. Lumbel Date 6/12/96

596T002796 → 2796
2777 → 2794
2778 → 2797

Reviewed by RK Fack
6/12/96

Data Entry Comments:

All samples have 10 ml of DL & 10 ml of Cor H₂O₂. Sample 94
is clear with a few solids. Samples 96 & 97 are pale yellow with DL Solids.
HPT was: Bob Clements at 6-11-96 1062 OIT: 10mrad / 8mr
LABCOED AS "GROUP 3" 2062 OIT: 5mrad / 5mr

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9044

Analyst: QAM Instrument: FUS01 AL1006 Book # N/A

Method: LA-549-141 Rev/Mod F-0

Worklist Comment: TANK#U-102,CORE 144,SEG 6UH,6LH-FUSION01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.750</u>	<u>N/A</u>	g/L
96000569	U-102	2 SAMPLE	S96T002795	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0156</u>		g/L
			<u>.5039g → .2501</u>							
96000569	U-102	3 SAMPLE	S96T002795	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>100</u>		mrad/hour
96000569	U-102	4 DUP	S96T002795	0 F	FUSION01	SOLID	<u>2.0156</u>	<u>2.0684</u>	<u>N/A</u>	g/L
			<u>.5171g → .2501</u>							
96000569	U-102	5 DUP	S96T002795	0 F	DOSE-02	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	mrad/hour
96000569	U-102	6 SAMPLE	S96T002798	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0856</u>		g/L
			<u>.5214g → .2501</u>							
96000569	U-102	7 SAMPLE	S96T002798	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrad/hour
96000569	U-102	8 DUP	S96T002798	0 F	FUSION01	SOLID	<u>2.0856</u>	<u>2.0600</u>	<u>N/A</u>	g/L
			<u>.5150g → .2501</u>							
96000569	U-102	9 DUP	S96T002798	0 F	DOSE-02	SOLID	<u>60</u>	<u>60</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

9044

Susan Bee 6/12/96
Analyst Signature Date

A. Lumbel 6/12/96
Analyst Signature Date

S96T002779 → 2795
2780 → 2798

Reviewed by PK
6/12/96

Data Entry Comments:

Simples have 10ml con HCl & 10ml con H₂O₂ (at
samples are done with 1% solids. 4PT was: 1500 CPMs
1 of 1 OTT 10mrad/8mr 2 of 2 OTT
6/12/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10450

Analyst: DPB Instrument: FUS01 Book # _____

Method: LA-549-141 Rev/Mod F-D

Worklist Comment: U-102 SEG6A FUSION01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP		FUSION01	SOLID	1	.250	N/A	g/L
96000569	U-102	2	SAMPLE	S96T003610	O F FUSION01	SOLID	N/A	2.0352		g/L
				.5088	→ .250g					
96000569	U-102	3	SAMPLE	S96T003610	O F DOSE-02	SOLID	N/A	40		mrad/hour
96000569	U-102	4	DUP	S96T003610	O F FUSION01	SOLID	2.0352	2.0008	N/A	g/L
				.5002	→ .250g					
96000569	U-102	5	DUP	S96T003610	O F DOSE-02	SOLID	40	35	N/A	mrad/hour

Final page for worklist # 10450

Daniel P. Bromley 6/30/96 1700
Analyst Signature Date

La Jona 7-1-96
Analyst Signature Date

596T003609 → 3610

Reviewed by RK Fullie
7/1/96

Data Entry Comments:

40 mL con HNO₃ ; <1% solids
HPT was Scott Corbaley

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

11033

Analyst: ELC Instrument: FUS01 Book # NA

Method: LA-549-141 Rev/Mod FD

Worklist Comment: U102 C143/144 COMP FUSION01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>0.250</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE	S96T003680	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.8496</u>		g/L
96000536	U-102	3 SAMPLE	S96T003680	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>		mrads/hour
96000536	U-102	4 DUP	S96T003680	0 F	FUSION01	SOLID	<u>1.8496</u>	<u>1.8548</u>	<u>N/A</u>	g/L
96000536	U-102	5 DUP	S96T003680	0 F	DOSE-02	SOLID	<u>60</u>	<u>60</u>	<u>N/A</u>	mrads/hour
96000569	U-102	6 SAMPLE	S96T003675	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.8576</u>		g/L
96000569	U-102	7 SAMPLE	S96T003675	0 F	DOSE-02	SOLID	<u>N/A</u>	<u>75</u>	<u>75</u>	mrads/hour
96000569	U-102	8 DUP	S96T003675	0 F	FUSION01	SOLID	<u>1.8576</u>	<u>1.9844</u>	<u>N/A</u>	g/L
96000569	U-102	9 DUP	S96T003675	0 F	DOSE-02	SOLID	<u>75</u>	<u>75</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

11033

Analyst Signature Donald P. Bromley Date 7/26/96

Analyst Signature ELC Date 7-29-96

Alpha bel 07-29-96
S96T 003678 → 3680
3670 → 3675

Reviewed by VRK Fall
7/31/96

Data Entry Comments:

HPT Bill Bishop Oil: 25 mrad
5ml HCL / 10 ml Con. HNO₃ Color - yellow & clear 0.2% solids

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8819

Analyst:

QAM

Instrument:

H2001 SN116355

Book #

Method: LA-504-101 Rev/Mod

E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-1UH,1LH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000536	U-102	2 SAMPLE	S96T002476	0 W	H20DIG01	SOLID	N/A	<u>5.5550</u>		g/L
96000536	U-102	3 SAMPLE	S96T002476	0	DOSE-02	SOLID	N/A	<u>30</u>		mrad/hour
96000536	U-102	4 DUP	S96T002476	0 W	H20DIG01	SOLID	<u>5.5550</u>	<u>5.4260</u>	N/A	g/L
96000536	U-102	5 DUP	S96T002476	0	DOSE-02	SOLID	<u>30</u>	<u>30</u>	N/A	mrad/hour
96000536	U-102	6 SAMPLE	S96T002478	0 W	H20DIG01	SOLID	N/A	<u>5.4490</u>		g/L
96000536	U-102	7 SAMPLE	S96T002478	0	DOSE-02	SOLID	N/A	<u>30</u>		mrad/hour
96000536	U-102	8 DUP	S96T002478	0 W	H20DIG01	SOLID	<u>5.4490</u>	<u>5.1430</u>	N/A	g/L
96000536	U-102	9 DUP	S96T002478	0	DOSE-02	SOLID	<u>30</u>	<u>25</u>	N/A	mrad/hour

Final page for worklist #

8819

Analyst Signature QAM Date 6-6-96

Analyst Signature Susan Bue Date 6/07/96

596T002324 → 596T002476
2329 → 2478

Data Entry Comments:

HPT - Charlene Cooper

Reviewed by PK Fuller
6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8820

Analyst:

QAM

Instrument: H2001 SW16355

Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-2UH,2LH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000536	U-102	2 SAMPLE	S96T002479	0 W	H20DIG01	SOLID	N/A	<u>5.7410</u>		g/L
96000536	U-102	3 SAMPLE	S96T002479	0	DOSE-02	SOLID	N/A	<u>50</u>		mrad/hour
96000536	U-102	4 DUP	S96T002479	0 W	H20DIG01	SOLID	<u>5.7410</u>	<u>5.8610</u>	N/A	g/L
96000536	U-102	5 DUP	S96T002479	0	DOSE-02	SOLID	<u>50</u>	<u>40</u>	N/A	mrad/hour
96000536	U-102	6 SAMPLE	S96T002480	0 W	H20DIG01	SOLID	N/A	<u>5.5120</u>		g/L
96000536	U-102	7 SAMPLE	S96T002480	0	DOSE-02	SOLID	N/A	<u>50</u>		mrad/hour
96000536	U-102	8 DUP	S96T002480	0 W	H20DIG01	SOLID	<u>5.5120</u>	<u>5.6740</u>	N/A	g/L
96000536	U-102	9 DUP	S96T002480	0	DOSE-02	SOLID	<u>50</u>	<u>50</u>	N/A	mrad/hour

Final page for worklist #

8820

QAMurphy 6-6-96
Analyst Signature Date

James B. 6/6/96
Analyst Signature Date

596T002332 → 596T002479
2335 → 2480

Data Entry Comments:

HPT-Charlene Cooper

Reviewed by PK Fuller
6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8821

Analyst: QRM Instrument: H2001 SN16355 Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-3UH,3LH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>1</u>	<u>.100</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE	S96T002481 0 W		H20D1G01	SOLID	<u>N/A</u>	<u>5.2400</u>		g/L
		<u>.5260g → .1000</u>								
96000536	U-102	3 SAMPLE	S96T002481 0		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	4 DUP	S96T002481 0 W		H20D1G01	SOLID	<u>5.2400</u>	<u>5.7270</u>	<u>N/A</u>	g/L
		<u>.5727g → .1000</u>								
96000536	U-102	5 DUP	S96T002481 0		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6 SAMPLE	S96T002482 0 W		H20D1G01	SOLID	<u>N/A</u>	<u>5.0150</u>		g/L
		<u>.5013g → .1000</u>								
96000536	U-102	7 SAMPLE	S96T002482 0		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	8 DUP	S96T002482 0 W		H20D1G01	SOLID	<u>5.0130</u>	<u>5.2530</u>	<u>N/A</u>	g/L
		<u>.5233g → .1000</u>								
96000536	U-102	9 DUP	S96T002482 0		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

8821

Analyst Signature QRMurphy Date 6-6-96

Analyst Signature Susan Bu Date 6/6/96

296T002358 → 296T002481
234 → 2482

Data Entry Comments:

2341 → 2482 non homogeneous
HPT - Charlene Cooper

Reviewed by R K Zella
6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8822

Analyst: CHAM Instrument: H2001 ALUQUA Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-4UH,4LH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>.100</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE <u>0.5338g</u> → <u>.1001</u>	S96T002483 0 W		H2001G01	SOLID	<u>N/A</u>	<u>5.3380</u>		g/L
96000536	U-102	3 SAMPLE	S96T002483 0		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	4 DUP <u>0.4724g</u> → <u>.1001</u>	S96T002483 0 W		H2001G01	SOLID	<u>5.3380</u>	<u>4.7240</u>	<u>N/A</u>	g/L
96000536	U-102	5 DUP	S96T002483 0		DOSE-02	SOLID	<u>50</u>	<u>40</u>	<u>N/A</u>	mrad/hour
96000536	U-102	6 SAMPLE <u>0.5298g</u> → <u>.1001</u>	S96T002491 0 W		H2001G01	SOLID	<u>N/A</u>	<u>5.2980</u>		g/L
96000536	U-102	7 SAMPLE	S96T002491 0		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	8 DUP <u>0.4567g</u> → <u>.1001</u>	S96T002491 0 W		H2001G01	SOLID	<u>5.2980</u>	<u>4.5670</u>	<u>N/A</u>	g/L
96000536	U-102	9 DUP	S96T002491 0		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist # 8822

CHAM 6-6-96
Analyst Signature Date

Susan Bee 6/07/96
Analyst Signature Date

S96T00 2344 → S96T00 2483
2347 → 2491

Data Entry Comments:

HPT-Charlene Cooper Reviewed by RK Feller
6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8823

Analyst: GRAM Instrument: H2001 AL1006 Book # _____Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK# U-102,CORE 143,SEG-5WS,5A UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000536	U-102	2 SAMPLE 0.4465g → .1001	S96T002520 0 W		H2001G01	SOLID	N/A	<u>4.4650</u>		g/L
96000536	U-102	3 SAMPLE	S96T002520 0		DOSE-02	SOLID	N/A	<u>30</u>		mrad/hour
96000536	U-102	4 DUP 0.4938g → .1001	S96T002520 0 W		H2001G01	SOLID	<u>4.4650</u>	<u>4.9380</u>	N/A	g/L
96000536	U-102	5 DUP	S96T002520 0		DOSE-02	SOLID	<u>30</u>	<u>5530</u>	N/A	mrad/hour
96000536	U-102	6 SAMPLE 0.4935g → .1001	S96T002523 0 W		H2001G01	SOLID	N/A	<u>4.9350</u>		g/L
96000536	U-102	7 SAMPLE	S96T002523 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000536	U-102	8 DUP 0.4772g → .1001	S96T002523 0 W		H2001G01	SOLID	<u>4.9350</u>	<u>4.7720</u>	N/A	g/L
96000536	U-102	9 DUP	S96T002523 0		DOSE-02	SOLID	<u>25</u>	<u>30</u>	N/A	mrad/hour

Final page for worklist #

8823

Analyst Signature: GRAM
Date: 6-6-96Analyst Signature: Susan Bee
Date: 6/07/96

596T002500 → 596T002520
2501 → 2523

Data Entry Comments:

HPT - Charles Cooper

Reviewed by RK Fuller 6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8824

Analyst: QAM Instrument: H2001 ALLOU Book # _____

Method: LA-504-101 Rev/Mod E-D

Worklist Comment: TANK# U-102,CORE 143,SEG-5B UH,5B LH,6UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000536	U-102	2 SAMPLE 0.5425g → .100g	S96T002675 0 W		H2001G01	SOLID	N/A	<u>5.4250</u>		g/L
96000536	U-102	3 SAMPLE	S96T002675 0		DOSE-02	SOLID	N/A	<u>60</u>		mrads/hour
96000536	U-102	4 DUP 0.4823g → .100g	S96T002675 0 W		H2001G01	SOLID	<u>5.4250</u>	<u>48230</u>	N/A	g/L
96000536	U-102	5 DUP	S96T002675 0		DOSE-02	SOLID	<u>60</u>	<u>60</u>	N/A	mrads/hour
96000536	U-102	6 SAMPLE 0.5684g → .100g	S96T002676 0 W		H2001G01	SOLID	N/A	<u>5.6840</u>		g/L
96000536	U-102	7 SAMPLE	S96T002676 0		DOSE-02	SOLID	N/A	<u>90</u>		mrads/hour
96000536	U-102	8 DUP 0.5213g → .100g	S96T002676 0 W		H2001G01	SOLID	<u>5.6840</u>	<u>5.2130</u>	N/A	g/L
96000536	U-102	9 DUP	S96T002676 0		DOSE-02	SOLID	<u>90</u>	<u>85</u>	N/A	mrads/hour
96000536	U-102	10 SAMPLE 0.4470g → .100g	S96T002759 0 W		H2001G01	SOLID	N/A	<u>4.4700</u>		g/L
96000536	U-102	11 SAMPLE	S96T002759 0		DOSE-02	SOLID	N/A	<u>50</u>		mrads/hour
96000536	U-102	12 DUP 0.5238g → .100g	S96T002759 0 W		H2001G01	SOLID	<u>4.4700</u>	<u>5.2380</u>	N/A	g/L
96000536	U-102	13 DUP	S96T002759 0		DOSE-02	SOLID	<u>50</u>	<u>60</u>	N/A	mrads/hour

Final page for worklist #

8824

QAM 6-6-96
Analyst Signature Date

Kevin Rie 6/07/96
Analyst Signature Date

Data Entry Comments:

HPT - Charlene Cooper

Reviewed by R K Fuller
6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9047

Analyst: CRAM Instrument: H2O01 AL11066 Book # _____

Method: LA-504-101 Rev/Mod E-D

Worklist Comment: TANK#U-102,CORE 144,SEG 1LH,2UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2O01G01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000569	U-102	2 SAMPLE	S96T002652 0 W		H2O01G01	SOLID	N/A	<u>5.2830</u>		g/L
96000569	U-102	3 SAMPLE	S96T002652 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000569	U-102	4 DUP	S96T002652 0 W		H2O01G01	SOLID	<u>5.2830</u>	<u>5.1650</u>	N/A	g/L
96000569	U-102	5 DUP	S96T002652 0		DOSE-02	SOLID	<u>25</u>	<u>35</u>	N/A	mrad/hour
96000569	U-102	6 SAMPLE	S96T002659 0 W		H2O01G01	SOLID	N/A	<u>5.2470</u>		g/L
96000569	U-102	7 SAMPLE	S96T002659 0		DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000569	U-102	8 DUP	S96T002659 0 W		H2O01G01	SOLID	<u>5.2470</u>	<u>5.2060</u>	N/A	g/L
96000569	U-102	9 DUP	S96T002659 0		DOSE-02	SOLID	<u>40</u>	<u>45</u>	N/A	mrad/hour

Final page for worklist #

9047

CRAM 6-15-96
Analyst Signature Date

Susan Bee 6/17/96
Analyst Signature Date

596T002632 → 596T002652
2644 → 2659

Reviewed by RK Heller
6/17/96

Data Entry Comments:

HPT - Jerry Gunnusky

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9048

Analyst:

JAM

Instrument:

H2001 AL11006

Book #

Method: LA-504-101 Rev/Mod

E-O

Worklist Comment: TANK#U-102,CORE 144,SEG 2LH,3UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	1	.100	N/A	g/L
96000569	U-102	2 SAMPLE	S96T002653 0 W		H2001G01	SOLID	N/A	5.5660		g/L
96000569	U-102	3 SAMPLE	S96T002653 0		DOSE-02	SOLID	N/A	35		mrad/hour
96000569	U-102	4 DUP	S96T002653 0 W		H2001G01	SOLID	5.5660	5.5360	N/A	g/L
96000569	U-102	5 DUP	S96T002653 0		DOSE-02	SOLID	35	35	N/A	mrad/hour
96000569	U-102	6 SAMPLE	S96T002660 0 W		H2001G01	SOLID	N/A	2.6000		g/L
96000569	U-102	7 SAMPLE	S96T002660 0		DOSE-02	SOLID	N/A	30		mrad/hour
96000569	U-102	8 DUP	S96T002660 0 W		H2001G01	SOLID	5.6000	5.6280	N/A	g/L
96000569	U-102	9 DUP	S96T002660 0		DOSE-02	SOLID	30	25	N/A	mrad/hour

Final page for worklist #

9048

Analyst Signature: JAM Murphy

Date: 6-13-96

Analyst Signature: Susan Bee

Date: 6/17/96

396T00 2633 → 2653
2647 → 2660

Data Entry Comments:

HPT - Jerry Gurnuskey Reviewed by PKHLLC
6/17/96Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9049

Analyst: QAM Instrument: H2001 AL1066 Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK#U-102,CORE 144,SEG 3LH,4UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>100</u>	N/A	g/L
96000569	U-102	2 SAMPLE	S96T002661 0 W		H2001G01	SOLID	N/A	<u>5.4570</u>		g/L
		<u>.5457g</u> → <u>.1001</u>								
96000569	U-102	3 SAMPLE	S96T002661 0		DOSE-02	SOLID	N/A	<u>50</u>		mrad/hour
96000569	U-102	4 DUP	S96T002661 0 W		H2001G01	SOLID	<u>5.4570</u>	<u>5.1280</u>	N/A	g/L
		<u>.5128g</u> → <u>.1001</u>								
96000569	U-102	5 DUP	S96T002661 0		DOSE-02	SOLID	<u>50</u>	<u>25</u>	N/A	mrad/hour
96000569	U-102	6 SAMPLE	S96T002805 0 W		H2001G01	SOLID	N/A	<u>5.6030</u>		g/L
		<u>.5603g</u> → <u>.1001</u>								
96000569	U-102	7 SAMPLE	S96T002805 0		DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000569	U-102	8 DUP	S96T002805 0 W		H2001G01	SOLID	<u>5.6030</u>	<u>5.6440</u>	N/A	g/L
		<u>.5644g</u> → <u>.1001</u>								
96000569	U-102	9 DUP	S96T002805 0		DOSE-02	SOLID	<u>40</u>	<u>45</u>	N/A	mrad/hour

Final page for worklist #

9049

Analyst Signature QAM Date 6-13-96

Analyst Signature Susan Bee Date 5/17/96

596T002636 → 2661
2775 → 2805

Data Entry Comments:

HPT- Jerry Gunnuskey Reviewed by RK Felt
6/17/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9050

Analyst:

QAM

Instrument:

H2001 ACU066

Book #

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK#U-102,CORE 144,SEG 4LH,5UH-H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000569	U-102	2 SAMPLE	S96T002806	0 W	H2001G01	SOLID	N/A	<u>5.1790</u>		g/L
96000569	U-102	3 SAMPLE	S96T002806	0	DOSE-02	SOLID	N/A	<u>45</u>		mrad/hour
96000569	U-102	4 DUP	S96T002806	0 W	H2001G01	SOLID	<u>5.1790</u>	<u>5.180</u>	N/A	g/L
96000569	U-102	5 DUP	S96T002806	0	DOSE-02	SOLID	<u>45</u>	<u>50</u>	N/A	mrad/hour
96000569	U-102	6 SAMPLE	S96T002807	0 W	H2001G01	SOLID	N/A	<u>5.4840</u>		g/L
96000569	U-102	7 SAMPLE	S96T002807	0	DOSE-02	SOLID	N/A	<u>45</u>		mrad/hour
96000569	U-102	8 DUP	S96T002807	0 W	H2001G01	SOLID	<u>5.4840</u>	<u>5.3150</u>	N/A	g/L
96000569	U-102	9 DUP	S96T002807	0	DOSE-02	SOLID	<u>45</u>	<u>50</u>	N/A	mrad/hour

Final page for worklist #

9050

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9051

Analyst: QJM Instrument: H2001 AL11064 Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TANK#U-102,CORE 144,SEG 5LH,6UH,6LH H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLER#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>.100</u>	<u>N/A</u>	g/L
96000569	U-102	2 SAMPLE	S96T002808	0 W	H2001G01	SOLID	<u>N/A</u>	<u>5.5050</u>		g/L
96000569	U-102	3 SAMPLE	S96T002808	0	DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000569	U-102	4 DUP	S96T002808	0 W	H2001G01	SOLID	<u>5.5050</u>	<u>5.4220</u>	<u>N/A</u>	g/L
96000569	U-102	5 DUP	S96T002808	0	DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour
96000569	U-102	6 SAMPLE	S96T002809	0 W	H2001G01	SOLID	<u>N/A</u>	<u>5.4920</u>		g/L
96000569	U-102	7 SAMPLE	S96T002809	0	DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000569	U-102	8 DUP	S96T002809	0 W	H2001G01	SOLID	<u>5.4920</u>	<u>5.6400</u>	<u>N/A</u>	g/L
96000569	U-102	9 DUP	S96T002809	0	DOSE-02	SOLID	<u>50</u>	<u>35</u>	<u>N/A</u>	mrad/hour
96000569	U-102	10 SAMPLE	S96T002810	0 W	H2001G01	SOLID	<u>N/A</u>	<u>5.5870</u>		g/L
96000569	U-102	11 SAMPLE	S96T002810	0	DOSE-02	SOLID	<u>N/A</u>	<u>35</u>		mrad/hour
96000569	U-102	12 DUP	S96T002810	0 W	H2001G01	SOLID	<u>5.5870</u>	<u>5.4860</u>	<u>N/A</u>	g/L
96000569	U-102	13 DUP	S96T002810	0	DOSE-02	SOLID	<u>35</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist # 9051

Analyst Signature QJM Date 6-13-96

Analyst Signature James Bee Date 6/17/96

Data Entry Comments:

HPT - Jerry Guruskey Reviewed by RK Fulla
6/17/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10452

Analyst: DCD Instrument: H2001 Book # _____

Method: LA-504-101 Rev/Mod E-D

Worklist Comment: U-102 SEG6A H20DIG01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP		H2001G01	SOLID	<u>1</u>	<u>.100</u>	<u>N/A</u>	g/L
96000569	U-102	2	SAMPLE	S96T003612 0 W	H2001G01	SOLID	<u>N/A</u>	<u>5.089</u>		g/L
				<u>.5089 → .1009</u>						
96000569	U-102	3	SAMPLE	S96T003612 0	DOSE-02	SOLID	<u>N/A</u>	<u>330</u>		mrad/hour
96000569	U-102	4	DUP	S96T003612 0 W	H2001G01	SOLID	<u>5.0890</u>	<u>5.0440</u>	<u>N/A</u>	g/L
				<u>.5044 → .1009</u>						
96000569	U-102	5	DUP	S96T003612 0	DOSE-02	SOLID	<u>330</u>	<u>375</u>	<u>N/A</u>	mrad/hour

Final page for worklist # 10452

Daniel C Dunham 6-30-96
Analyst Signature Date

[Signature] 7-1-96
Analyst Signature Date

596T003609 → 3612

Data Entry Comments:

HPT - SAM SHEMAI

Reviewed by R K Fuller
7/1/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

11035

Analyst: DPB Instrument: H2001 Book # _____

Method: LA-504-101 Rev/Mod E.O

Worklist Comment: U102 C143/144 H2ODIG01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>1</u>	<u>.100</u>	<u>N/A</u>	g/L
96000536	U-102	2 SAMPLE	S96T003684 0 W <u>.4923</u> → <u>.100</u>		H2ODIG01	SOLID	<u>N/A</u>	<u>4.923</u>		g/L
96000536	U-102	3 SAMPLE	S96T003684 0 W <u>.4787</u> → <u>.100</u>		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000536	U-102	4 DUP	S96T003684 0 W <u>.4787</u> → <u>.100</u>		H2ODIG01	SOLID	<u>4.923</u>	<u>4.787</u>	<u>N/A</u>	g/L
96000536	U-102	5 DUP	S96T003684 0 W <u>.4787</u> → <u>.100</u>		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour
96000569	U-102	6 SAMPLE	S96T003677 0 W <u>.5227</u> → <u>.100</u>		H2ODIG01	SOLID	<u>N/A</u>	<u>5.227</u>		g/L
96000569	U-102	7 SAMPLE	S96T003677 0 W <u>.5227</u> → <u>.100</u>		DOSE-02	SOLID	<u>N/A</u>	<u>50</u>		mrad/hour
96000569	U-102	8 DUP	S96T003677 0 W <u>.5009</u> → <u>.100</u>		H2ODIG01	SOLID	<u>5.227</u>	<u>5.009</u>	<u>N/A</u>	g/L
96000569	U-102	9 DUP	S96T003677 0 W <u>.5009</u> → <u>.100</u>		DOSE-02	SOLID	<u>50</u>	<u>50</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

11035

Analyst Signature Daniel P. Beasley Date 7/26/96 1620

Analyst Signature RK Fuller Date 7-29-96

Daniel C Dunham 7/27/96

S96T003678 → 3684

3670 → 3677

Data Entry Comments:

Reviewed by RK Fuller
7/29/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8817

Analyst: QPMInstrument: ACD01 SN16350 Book # Method: LA-505-159 Rev/Mod D-O

Worklist Comment: TANK# U-102,CORE 143,SEG-1UH,1LH,2UH,2LH,3UH,3LH,ACIDIG RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000536	U-102	3	SAMPLE	S96T002468	0	A	ACIDIG01	SOLID	N/A	<u>5.4020</u>		g/L
				<u>.2701g</u>								
96000536	U-102	4	SAMPLE	S96T002468	0		DOSE-02	SOLID	N/A	<u>40</u>		mrads/hour
				<u>.2798g</u>								
96000536	U-102	5	DUP	S96T002468	0	A	ACIDIG01	SOLID	<u>5.4020</u>	<u>5.3960</u>	N/A	g/L
				<u>.2701g</u>								
96000536	U-102	6	DUP	S96T002468	0		DOSE-02	SOLID	<u>40</u>	<u>40</u>	N/A	mrads/hour
				<u>.2677g</u>								
96000536	U-102	7	SPK	S96T002468	0	A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
				<u>.2677g</u>								
96000536	U-102	8	SPK	S96T002468	0		DOSE-02	SOLID	<u>NA</u>	<u>40</u>	N/A	mrads/hour
				<u>.2683g</u>								
96000536	U-102	9	SAMPLE	S96T002469	0	A	ACIDIG01	SOLID	N/A	<u>5.3160</u>		g/L
				<u>.2701g</u>								
96000536	U-102	10	SAMPLE	S96T002469	0		DOSE-02	SOLID	N/A	<u>25</u>		mrads/hour
				<u>.2569g</u>								
96000536	U-102	11	DUP	S96T002469	0	A	ACIDIG01	SOLID	<u>5.3160</u>	<u>5.1380</u>	N/A	g/L
				<u>.2569g</u>								
96000536	U-102	12	DUP	S96T002469	0		DOSE-02	SOLID	<u>25</u>	<u>30</u>	N/A	mrads/hour
				<u>.2717g</u>								
96000536	U-102	13	SPK	S96T002469	0	A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
				<u>.2717g</u>								
96000536	U-102	14	SPK	S96T002469	0		DOSE-02	SOLID	<u>NA</u>	<u>25</u>	N/A	mrads/hour
				<u>.2818g</u>								
96000536	U-102	15	SAMPLE	S96T002470	0	A	ACIDIG01	SOLID	N/A	<u>5.1630</u>		g/L
				<u>.2703g</u>								
96000536	U-102	16	SAMPLE	S96T002470	0		DOSE-02	SOLID	N/A	<u>30</u>		mrads/hour
				<u>.2703g</u>								
96000536	U-102	17	DUP	S96T002470	0	A	ACIDIG01	SOLID	<u>5.1630</u>	<u>5.4060</u>	N/A	g/L
				<u>.2703g</u>								
96000536	U-102	18	DUP	S96T002470	0		DOSE-02	SOLID	<u>30</u>	<u>25</u>	N/A	mrads/hour

Data Entry Comments:

1190 DDEids
HPT-Bull Bishop

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8817

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000536	U-102	19 SAMPLE	S96T002471	0 A	ACIDIG01	SOLID	N/A	5.4560		g/L
		2728g → .050l								
96000536	U-102	20 SAMPLE	S96T002471	0	DOSE-02	SOLID	N/A	30		mrad/hour
96000536	U-102	21 DUP	S96T002471	0 A	ACIDIG01	SOLID	5.4560	5.5360	N/A	g/L
		2768g → .050l								
96000536	U-102	22 DUP	S96T002471	0	DOSE-02	SOLID	30	25	N/A	mrad/hour
96000536	U-102	23 SPK	S96T002471	0 A	ACIDIG01	SOLID	20	20	N/A	g/L
		2665g → .050l								
96000536	U-102	24 SPK	S96T002471	0	DOSE-02	SOLID	NA	25	N/A	mrad/hour
96000536	U-102	25 SAMPLE	S96T002472	0 A	ACIDIG01	SOLID	N/A	5.0480		g/L
		2549g → .050l								
96000536	U-102	26 SAMPLE	S96T002472	0	DOSE-02	SOLID	N/A	30		mrad/hour
96000536	U-102	27 DUP	S96T002472	0 A	ACIDIG01	SOLID	5.0480	5.3160	N/A	g/L
		2658g → .050l								
96000536	U-102	28 DUP	S96T002472	0	DOSE-02	SOLID	30	25	N/A	mrad/hour
96000536	U-102	29 SAMPLE	S96T002473	0 A	ACIDIG01	SOLID	N/A	5.7620		g/L
		2881g → .050l								
96000536	U-102	30 SAMPLE	S96T002473	0	DOSE-02	SOLID	N/A	25		mrad/hour
96000536	U-102	31 DUP	S96T002473	0 A	ACIDIG01	SOLID	5.7620	5.0900	N/A	g/L
		2545g → .050l								
96000536	U-102	32 DUP	S96T002473	0	DOSE-02	SOLID	25	25	N/A	mrad/hour

Final page for worklist #

8817

GA Murphy 6-4-96
Analyst Signature Date

Susan Bu 6/05/96
Analyst Signature Date

Data Entry Comments:

2341 → 2473 non homogeneous

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8818

Analyst: AKM Instrument: ACD01 ACIDUB Book # _____

Method: LA-505-159 Rev/Mod 0-0

Worklist Comment: TANK# U-102,CORE 143,SEG-4UH,4LH,5WS,5A UH,5B UH,5B LH,6UH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000536	U-102	3 SAMPLE 0.2422g → .050l	S96T002474 0 A		ACIDIG01	SOLID	N/A	<u>4.8440</u>		g/L
96000536	U-102	4 SAMPLE	S96T002474 0		DOSE-02	SOLID	N/A	<u>75</u>		mrad/hour
96000536	U-102	5 DUP 0.2622g → .050l	S96T002474 0 A		ACIDIG01	SOLID	<u>4.8440</u>	<u>5.2440</u>	N/A	g/L
96000536	U-102	6 DUP	S96T002474 0		DOSE-02	SOLID	<u>75</u>	<u>50</u>	N/A	mrad/hour
96000536	U-102	7 SPK 0.2437g → .050l	S96T002474 0 A		ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000536	U-102	8 SPK	S96T002474 0		DOSE-02	SOLID	<u>NA</u>	<u>25</u>	N/A	mrad/hour
96000536	U-102	9 SAMPLE 0.2352g → .050l	S96T002475 0 A		ACIDIG01	SOLID	N/A	<u>4.7040</u>		g/L
96000536	U-102	10 SAMPLE	S96T002475 0		DOSE-02	SOLID	N/A	<u>60</u>		mrad/hour
96000536	U-102	11 DUP 0.2239g → .050l	S96T002475 0 A		ACIDIG01	SOLID	<u>4.7040</u>	<u>4.4780</u>	N/A	g/L
96000536	U-102	12 DUP	S96T002475 0		DOSE-02	SOLID	<u>60</u>	<u>70</u>	N/A	mrad/hour
96000536	U-102	13 SAMPLE 0.2157g → .050l	S96T002519 0 A		ACIDIG01	SOLID	N/A	<u>5.540</u>		g/L
96000536	U-102	14 SAMPLE	S96T002519 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000536	U-102	15 DUP 0.2442g → .050l	S96T002519 0 A		ACIDIG01	SOLID	<u>5.540</u>	<u>4.8840</u>	N/A	g/L
96000536	U-102	16 DUP	S96T002519 0		DOSE-02	SOLID	<u>25</u>	<u>7.3</u>	N/A	mrad/hour
96000536	U-102	17 SPK 0.2350g → .050l	S96T002519 0 A		ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000536	U-102	18 SPK	S96T002519 0		DOSE-02	SOLID	<u>NA</u>	<u>25</u>	N/A	mrad/hour

Data Entry Comments:

<1010 SOLIDS
HPT - Charlene Cooper

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8818

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000536	U-102	19 SAMPLE 0.2582g → .0501	S96T002522	0 A	ACIDIG01	SOLID	N/A	5.1640		g/L
96000536	U-102	20 SAMPLE	S96T002522	0	DOSE-02	SOLID	N/A	12.5		mrad/hour
96000536	U-102	21 DUP 0.2872g → .0501	S96T002522	0	DOSE-02	SOLID	5.1640	5.7440	N/A	mrad/hour
96000536	U-102	22 DUP	S96T002522	0 A	ACIDIG01	SOLID	12.5	12.5	N/A	g/L
96000536	U-102	23 SAMPLE 0.2822g → .0501	S96T002673	0 A	ACIDIG01	SOLID	N/A	5.6440		g/L
96000536	U-102	24 SAMPLE	S96T002673	0	DOSE-02	SOLID	N/A	35		mrad/hour
96000536	U-102	25 DUP 0.2448g → .0501	S96T002673	0 A	ACIDIG01	SOLID	5.6440	4.8960	N/A	g/L
96000536	U-102	26 DUP	S96T002673	0	DOSE-02	SOLID	35	50	N/A	mrad/hour
96000536	U-102	27 SAMPLE 0.2542g → .0501	S96T002674	0 A	ACIDIG01	SOLID	N/A	5.0840		g/L
96000536	U-102	28 SAMPLE	S96T002674	0	DOSE-02	SOLID	N/A	50		mrad/hour
96000536	U-102	29 DUP 0.2470g → .0501	S96T002674	0 A	ACIDIG01	SOLID	5.0840	4.9400	N/A	g/L
96000536	U-102	30 DUP	S96T002674	0	DOSE-02	SOLID	50	100	N/A	mrad/hour
96000536	U-102	31 SAMPLE 0.2788g → .0501	S96T002758	0 A	ACIDIG01	SOLID	N/A	5.5760		g/L
96000536	U-102	32 SAMPLE	S96T002758	0	DOSE-02	SOLID	N/A	50		mrad/hour
96000536	U-102	33 DUP 0.2665g → .0501	S96T002758	0 A	ACIDIG01	SOLID	5.5760	5.5300	N/A	g/L
96000536	U-102	34 DUP	S96T002758	0	DOSE-02	SOLID	50	60	N/A	mrad/hour

Final page for worklist #

8818

PK Murphy 6-6-96
Analyst Signature Date

Simon B. 6/10/96
Analyst Signature Date

Data Entry Comments:

Reviewed by PK Fuller 6/10/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9045

Analyst: QAM Instrument: ACD01 AC1066 Book # _____

Method: LA-505-159 Rev/Mod 0-0

Worklist Comment: TANK#U-102,CORE 144,SEG 1LH,1UH,2LH,3UH,3LH,4UH-ACIDIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000569	U-102	3 SAMPLE	S96T002650	0 A	ACIDIG01	SOLID	N/A	<u>5.0660</u>		g/L
96000569	U-102	4 SAMPLE	S96T002650	0	DOSE-02	SOLID	N/A	<u>75</u>		mrad/hour
96000569	U-102	5 DUP	S96T002650	0 A	ACIDIG01	SOLID	<u>5.0660</u>	<u>5.1820</u>	N/A	g/L
96000569	U-102	6 DUP	S96T002650	0	DOSE-02	SOLID	<u>75</u>	<u>75</u>	N/A	mrad/hour
96000569	U-102	7 SPK	S96T002650	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000569	U-102	8 SPK	S96T002650	0	DOSE-02	SOLID	<u>24</u>	<u>75</u>	N/A	mrad/hour
96000569	U-102	9 SAMPLE	S96T002656	0 A	ACIDIG01	SOLID	N/A	<u>5.1190</u>		g/L
96000569	U-102	10 SAMPLE	S96T002656	0	DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000569	U-102	11 DUP	S96T002656	0 A	ACIDIG01	SOLID	<u>5.1190</u>	<u>5.2600</u>	N/A	g/L
96000569	U-102	12 DUP	S96T002656	0	DOSE-02	SOLID	<u>40</u>	<u>50</u>	N/A	mrad/hour
96000569	U-102	13 SAMPLE	S96T002651	0	ACIDIG01	SOLID	N/A	<u>5.2100</u>		g/L
96000569	U-102	14 SAMPLE	S96T002651	0	DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000569	U-102	15 DUP	S96T002651	0	ACIDIG01	SOLID	<u>5.2100</u>	<u>5.3980</u>	N/A	g/L
96000569	U-102	16 DUP	S96T002651	0	DOSE-02	SOLID	<u>40</u>	<u>40</u>	N/A	mrad/hour
96000569	U-102	17 SPK	S96T002651	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000569	U-102	18 SPK	S96T002651	0	DOSE-02	SOLID	<u>24</u>	<u>40</u>	N/A	mrad/hour

Data Entry Comments:

<1070 solids

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9045

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000569	U-102	19 SAMPLE	S96T002657	0 A	ACIDIG01	SOLID	N/A	5.5980		g/L
		.2699g → .0501								
96000569	U-102	20 SAMPLE	S96T002657	0	DOSE-02	SOLID	N/A	25		mrads/hour
96000569	U-102	21 DUP	S96T002657	0 A	ACIDIG01	SOLID	5.3980	5.0520	N/A	g/L
		.2526g → .0501								
96000569	U-102	22 DUP	S96T002657	0	DOSE-02	SOLID	25	25	N/A	mrads/hour
96000569	U-102	23 SAMPLE	S96T002658	0 A	ACIDIG01	SOLID	N/A	5.5760		g/L
		.2788g → .0501								
96000569	U-102	24 SAMPLE	S96T002658	0	DOSE-02	SOLID	N/A	25		mrads/hour
96000569	U-102	25 DUP	S96T002658	0 A	ACIDIG01	SOLID	5.5760	5.5300	N/A	g/L
		.2768g → .0501								
96000569	U-102	26 DUP	S96T002658	0	DOSE-02	SOLID	25	25	N/A	mrads/hour
96000569	U-102	27 SAMPLE	S96T002799	0 A	ACIDIG01	SOLID	N/A	5.5240		g/L
		.2763g → .0501								
96000569	U-102	28 SAMPLE	S96T002799	0	DOSE-02	SOLID	N/A	50		mrads/hour
96000569	U-102	29 DUP	S96T002799	0	ACIDIG01	SOLID	5.5240	5.3840	N/A	g/L
		.2692g → .0501								
96000569	U-102	30 DUP	S96T002799	0	DOSE-02	SOLID	50	50	N/A	mrads/hour

Final page for worklist #

9045

6-12-96
 Analyst Signature Date

6/12/96
 Analyst Signature Date

S96T002632 → S96T002650
 2646 → 2656
 2633 → 2651
 2647 → 2657
 2636 → 2658
 2775 → 2899

Data Entry Comments:

Reviewed by PK Fellen
 6/12/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9046

Analyst: QAMInstrument: ACD01 AU1066

Book # _____

Method: LA-505-159 Rev/Mod D-0

Worklist Comment: TANK#U-102,CORE 144,SEG 4LH,5UH,5LH,6UH,6LH-ACIDIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000569	U-102	3 SAMPLE	S96T002800	0 A	ACIDIG01	SOLID	N/A	<u>5.1940</u>		g/L
										DF. 6-10-96
96000569	U-102	4 SAMPLE	S96T002800	0	DOSE-02	SOLID	N/A	<u>75</u>		mrad/hour
96000569	U-102	5 DUP	S96T002800	0 A	ACIDIG01	SOLID	<u>5.1940</u>	<u>5.1560</u>	N/A	g/L
96000569	U-102	6 DUP	S96T002800	0	DOSE-02	SOLID	<u>75</u>	<u>60</u>	N/A	mrad/hour
96000569	U-102	7 SPK	S96T002800	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000569	U-102	8 SPK	S96T002800	0	DOSE-02	SOLID	<u>NA</u>	<u>50</u>	N/A	mrad/hour
96000569	U-102	9 SAMPLE	S96T002801	0 A	ACIDIG01	SOLID	N/A	<u>5.5620</u>		g/L
96000569	U-102	10 SAMPLE	S96T002801	0	DOSE-02	SOLID	N/A	<u>90</u>		mrad/hour
96000569	U-102	11 DUP	S96T002801	0 A	ACIDIG01	SOLID	<u>5.5620</u>	<u>5.6840</u>	N/A	g/L
96000569	U-102	12 DUP	S96T002801	0	DOSE-02	SOLID	<u>90</u>	<u>100</u>	N/A	mrad/hour
96000569	U-102	13 SAMPLE	S96T002802	0 A	ACIDIG01	SOLID	N/A	<u>5.3140</u>		g/L
96000569	U-102	14 SAMPLE	S96T002802	0	DOSE-02	SOLID	N/A	<u>70</u>		mrad/hour
96000569	U-102	15 DUP	S96T002802	0 A	ACIDIG01	SOLID	<u>5.3140</u>	<u>5.0380</u>	N/A	g/L
96000569	U-102	16 DUP	S96T002802	0	DOSE-02	SOLID	<u>70</u>	<u>50</u>	N/A	mrad/hour
96000569	U-102	17 SAMPLE	S96T002803	0 A	ACIDIG01	SOLID	N/A	<u>5.5220</u>		g/L
96000569	U-102	18 SAMPLE	S96T002803	0	DOSE-02	SOLID	N/A	<u>100</u>		mrad/hour

Data Entry Comments:

<1070 solids

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

213

LABCORE Data Entry Template for Worklist#

9046

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000569	U-102	19 DUP .2692g → .0501	S96T002803	0 A	ACIDIG01	SOLID	5.5220	5.3840	N/A	g/L
96000569	U-102	20 DUP	S96T002803	0	DOSE-02	SOLID	60	70	N/A	mrads/hour
96000569	U-102	21 SAMPLE .2670g → .0501	S96T002804	0 A	ACIDIG01	SOLID	N/A	5.3400		g/L
96000569	U-102	22 SAMPLE	S96T002804	0	DOSE-02	SOLID	N/A	50		mrads/hour
96000569	U-102	23 DUP .2759g → .0501	S96T002804	0 A	ACIDIG01	SOLID	5.5400	5.5180	N/A	g/L
96000569	U-102	24 DUP	S96T002804	0	DOSE-02	SOLID	50	45	N/A	mrads/hour
96000569	U-102	25 SPK .2667g → .0501	S96T002804	0 A	ACIDIG01	SOLID	20	20	N/A	g/L
96000569	U-102	26 SPK	S96T002804	0	DOSE-02	SOLID	NA	50	N/A	mrads/hour

Final page for worklist #

9046

Amunphy 6-12-96
Analyst Signature Date

Susan Bee 6/12/96
Analyst Signature Date

S96T002776 → S96T002800
2777 → 2801
2778 → 2802
2779 → 2803
2780 → 2804

Reviewed by Rk Fells
6/12/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10451

Analyst: SMF Instrument: ACD01 Book # WHC1A/565 WHC1A N5
WHC2/L3MWHC2N15

Method: LA-505-159 Rev/Mod D-0

Worklist Comment: U-102 SEG6A ACIDIG01SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	<u>DF SMF</u> <u>6-30-96</u>
96000569	U-102	3 SAMPLE	S96T003611	0 A	ACIDIG01	SOLID	N/A	<u>4.8880</u>		g/L
			<u>.2444</u>							
96000569	U-102	4 SAMPLE	S96T003611	0	DOSE-02	SOLID	N/A	<u>15</u>		mrads/hour
96000569	U-102	5 DUP	S96T003611	0 A	ACIDIG01	SOLID	<u>4.8880</u>	<u>4.9640</u>	N/A	g/L
			<u>.2482</u>							
96000569	U-102	6 DUP	S96T003611	0	DOSE-02	SOLID	<u>15</u>	<u>20</u>	N/A	mrads/hour
96000569	U-102	7 SPK	S96T003611	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	<u>DF SMF</u> <u>6-30-96</u>
			<u>.2452</u>							
96000569	U-102	8 SPK	S96T003611	0	DOSE-02	SOLID	<u>NA</u>	<u>20</u>	N/A	mrads/hour

Final page for worklist #

10451

Lucie M. Dalton
Analyst Signature Date 6-30-96

Sandra Hind Bontrecht
Analyst Signature Date 6-30-96
DATA ENTRY

596T003609 → 3611 Li Jones 7-1-96

Reviewed by RK Fuller
7/1/96

Data Entry Comments:

L1/ Solids

HPT Scott Corbaley

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10795

Analyst: Dcd Instrument: ACD01 Book # _____Method: LA-505-159 Rev/Mod D-O

Worklist Comment: TANK U-102,CORE 144, SEG 6A UH(FROM 3609-> TO 3686) ACIDIG01

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	<u>N/A</u>	g/L
		2	STD-PREP				ACIDIG01	SOLID	<u>20</u>	<u>20</u>	<u>N/A</u>	DF SW 7-17-96
96000569	U-102	3	SAMPLE	S96T003686	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.7280</u>		g/L
			<u>0.2844g</u>									
			<u>→ .0502</u>									
96000569	U-102	4	SAMPLE	S96T003686	0	A	DOSE-02	SOLID	<u>N/A</u>	<u>40</u>		mrad/hour
96000569	U-102	5	DUP	S96T003686	0	A	ACIDIG01	SOLID	<u>5.7280</u>	<u>5.6100</u>	<u>N/A</u>	g/L
			<u>0.2805g</u>									
			<u>→ .0502</u>									
96000569	U-102	6	DUP	S96T003686	0	A	DOSE-02	SOLID	<u>40</u>	<u>40</u>	<u>N/A</u>	mrad/hour
									<u>20</u>	<u>20</u>		D.F.
96000569	U-102	7	SPK	S96T003686	0	A	ACIDIG01	SOLID	<u>NA</u>	<u>5.8290</u>	<u>N/A</u>	g/L
			<u>0.2912g</u>									
			<u>→ .0502</u>									
96000569	U-102	8	SPK	S96T003686	0	A	DOSE-02	SOLID	<u>NA</u>	<u>35</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

10795

Daniel D. Dunham 7-16-96
Analyst Signature Date
Susan M. Jutton 7-17-96

D. H. H. H. H. 7-19-96
Analyst Signature Date
Reviewed By m/L 7/19/96

Std / Spike dilution factor = 20.

Data Entry Comments:

HPT: Joe Valdez

RK Full 7/22/96

Shelf #3

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

11034

Analyst: DPB/DDD Instrument: ACD01 Book #

Method: LA-505-159 Rev/Mod D-O

Worklist Comment: U102 C143/144 ACIDIG01 SKB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
		2	STD-PREP				ACIDIG01	SOLID	<u>20</u>	<u>20</u>	<u>N/A</u>	g/L
96000536	U-102	3	SAMPLE	S96T003682	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.8540</u>		g/L
				<u>.2427g</u>			<u>.050 L</u>					
96000536	U-102	4	SAMPLE	S96T003682	0	A	DOSE-02	SOLID	<u>N/A</u>	<u>50</u>	<u>50</u>	mmrad/hour
96000536	U-102	5	DUP	S96T003682	0	A	ACIDIG01	SOLID	<u>4.8540</u>	<u>5.4240</u>	<u>N/A</u>	g/L
				<u>.2712g</u>			<u>.050 L</u>					
96000536	U-102	6	DUP	S96T003682	0	A	DOSE-02	SOLID	<u>50</u>	<u>60</u>	<u>N/A</u>	mmrad/hour
96000536	U-102	7	SPK	S96T003682	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.7240</u>	<u>N/A</u>	g/L
				<u>.2862g</u>			<u>.050 L</u>					
96000536	U-102	8	SPK	S96T003682	0	A	DOSE-02	SOLID	<u>NA</u>	<u>75</u>	<u>N/A</u>	mmrad/hour
96000569	U-102	9	SAMPLE	S96T003676	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.2040</u>		g/L
				<u>.2602g</u>			<u>.050 L</u>					
96000569	U-102	10	SAMPLE	S96T003676	0	A	DOSE-02	SOLID	<u>N/A</u>	<u>60</u>	<u>60</u>	mmrad/hour
96000569	U-102	11	DUP	S96T003676	0	A	ACIDIG01	SOLID	<u>5.2040</u>	<u>5.1620</u>	<u>N/A</u>	g/L
				<u>.2581g</u>			<u>.050 L</u>					
96000569	U-102	12	DUP	S96T003676	0	A	DOSE-02	SOLID	<u>60</u>	<u>55</u>	<u>N/A</u>	mmrad/hour
96000569	U-102	13	SPK	S96T003676	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.8720</u>	<u>N/A</u>	g/L
				<u>.2436g</u>			<u>.050 L</u>					
96000569	U-102	14	SPK	S96T003676	0	A	DOSE-02	SOLID	<u>NA</u>	<u>45</u>	<u>N/A</u>	mmrad/hour

Final page for worklist #

11034

Daniel P. Bromley 7/26/96
Analyst Signature Date

DPB/DDD 7-27-96
Analyst Signature Date

Daniel P. Bromley 7/27/96 S96T003678 → 3682
3670 → 3676

Data Entry Comments:

Reviewed by R. Fuller
7/27/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-MM-DP-189, REV. 1

INORGANIC ANALYSES

WHC-SD-WM-DP-189, REV. 1

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Requestor: F. Steen

Tank: U-102

Core: 143

Seg: 1 UH

Auger: —

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#:

9843

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Conc#:

9843

Final Vol: 9.0 mL

Initial Weight: 6.60 g

Final Weight: 21.08 g

Net Weight: 14.48 g

Appearance/Narrative: U-102

BK DENO 1 = 1.61 g/mL

Tank: U-102

Core: 143

Seg: 1 LH

Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#:

9852

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Conc#:

9852

Final Vol: 8.3 mL

Initial Weight: 6.65 g

Final Weight: 21.68 g

Net Weight: 15.03 g

Appearance/Narrative: U-102

BK DENO 1 = 1.81 g/mL

Requestor: F Stout

Tank: 4-102
Core: 143
Seg: 24H
Auger: —

Start Time: _____
End Time: _____

Homogenization
Time (Min): _____

Jar#: 9519
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 9519
Final Vol: 10.0 mL
Initial Weight: 6.60 g
Final Weight: 2.348 g
Net Weight: g

Appearance/Narrative: 1.88/10.0 = 1.69 g/mL
612 Dec 01 =

Date: 5-4-96

Tank: 4-102
Core: 143
Seg: 24H
Auger: —

Start Time: _____
End Time: _____

Homogenization
Time (Min): _____

Jar#: 9847
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 9847
Final Vol: 10.0 mL
Initial Weight: 6.60 g
Final Weight: 2.972 g
Net Weight: 16.37 g

Appearance/Narrative: 16.37/10.0 = 1.64 g/mL
612 Dec 01 =

Date: 5-4-96

Requestor: _____

Tank: 4-10
Core: 143
Seg: 3 UP
Auger: _____

Tank: 4102
Core: 143
Seg: 3 LH
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 9846
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 9846
Final Vol: 9.5 mL
Initial Weight: 6.61 g
Final Weight: 22.24 g
Net Weight: 15.63 g

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 9844
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 9844
Final Vol: 10.5 mL
Initial Weight: 6.71 g
Final Weight: 23.78 g
Net Weight: 17.07 g

Appearance/Narrative: _____

61200001 = 15.63 g / 9.5 = 1.65 g/mL

Appearance/Narrative: _____

61200001 = 17.07 / 10.5 = 1.64 g/mL

Requestor: F. Steen

Tank: 4102
Core: 143
Seg: 414H
Auger:

Start Time:
End Time:

Homogenization
Time (Min.):

Jar#: 9840
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 9840
Final Vol: 10.5 mL
Initial Weight: 6.60 g
Final Weight: 23.62 g
Net Weight: 17.02 g

Appearance/Narrative: 8/KD&101-17.0/10.5 = 1.62g/mL

Appearance/Narrative: 96.90/10.5 = 1.64-91

Appearance/Narrative: 96.90/10.5 = 1.64-91

Tank: 4102
Core: 143
Seg: 414H
Auger:

Start Time:
End Time:

Homogenization
Time (Min.):

Jar#: 9841
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 9841
Final Vol: 10.5 mL
Initial Weight: 6.65 g
Final Weight: 23.55 g
Net Weight: g

Appearance/Narrative: 96.90/10.5 = 1.64-91

Appearance/Narrative: 8/KD&101-17.0/10.5 = 1.62g/mL

Appearance/Narrative: 96.90/10.5 = 1.64-91

Requestor: _____

Tank: 4-102
 Core: 143
 Seg: 5 whole seg
 Auger: _____

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Jar#: 9849
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: 1.8 g
 Net Weight: _____ g

Cone#: 49
 Final Vol: 8.75 mL
 Initial Weight: 7.70 g
 Final Weight: 24.11 g
 Net Weight: 16.41 g

Appearance/Narrative: _____

Bulk Den = 16.41 / 8.75 = 1.88 g/mL

Date: 5/28/94

Tank: _____
 Core: _____
 Seg: _____
 Auger: _____

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Jar#: 9849
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Cone#: _____
 Final Vol: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Appearance/Narrative: _____

Requestor: F. Stee N

Tank: U-102
Core: 143
Seg: 5A uH
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 9833
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 33
Final Vol: 11.5 mL
Initial Weight: 6.42 g
Final Weight: 26.34 g
Net Weight: 19.72 g

Appearance/Narrative:

Bulk Den 19.72 / 11.5 = 1.71 g/mL

Date: _____

Tank: _____
Core: _____
Seg: _____
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: _____
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: _____
Final Vol: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Appearance/Narrative:

requestor: F. Steen

Tank: 4-102
Core: 143
Seg: 5B4H
Auger: —

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10027
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 27
Final Vol: 10.7 mL
Initial Weight: 2.47 g
Final Weight: 25.17 g
Net Weight: 17.70 g

Appearance/Narrative: _____

$17.70 / 10.70 = 1.65$ g/mL

Date: 5-28-96

Tank: 4-102
Core: 143
Seg: 5B4H
Auger: —

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10029
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 29
Final Vol: 11.2 mL
Initial Weight: 2.57 g
Final Weight: 24.86 g
Net Weight: 17.35 g

Appearance/Narrative: _____

$17.35 / 11.2 = 1.55$ g/mL

Tank: 11-102
Core: 143
Seg: 6UH
Auger: ---

Start Time: ---
End Time: ---

Homogenization
Time (Min.): ---

Jar#: 10043
Jar/Vial Size: --- mL
Initial Weight: --- g
Final Weight: --- g
Net Weight: --- g

Cone#: 43
Final Vol: 11.9 mL
Initial Weight: 7.44 g
Final Weight: 26.59 g
Net Weight: 19.15 g

Appearance/Narrative:

Wt 26.01 = 19.15 11.9 = 1.61 g/mL

Tank: ---
Core: ---
Seg: ---
Auger: ---

Start Time: ---
End Time: ---

Homogenization
Time (Min.): ---

Jar#: ---
Jar/Vial Size: --- mL
Initial Weight: --- g
Final Weight: --- g
Net Weight: --- g

Cone#: ---
Final Vol: --- mL
Initial Weight: --- g
Final Weight: --- g
Net Weight: --- g

Appearance/Narrative:

Bulk Density Worksheet

Requestor: STEEN

Date: 7/22/96

Tank: 11-102
Core: 143
Seg: Core
Auger: -
Sample ID: _____

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____

Jar#: 10421

Jar/Vial Size: 125 mL

Initial Weight: _____ g

Final Weight: 72.46 g

Net Weight: 72.46 g

Cone#: 21

Final Vol: 9.2 mL

Initial Weight: 7.7 g

Final Weight: 23.2 g

Net Weight: 15.5 g

Sample ID: 57600368

Appearance/Narrative: Bulk Density = 15.5 / 9.2 = 1.68 g/mL

11-102
143
Core

Tank: _____
Core: _____
Seg: _____
Auger: _____
Sample ID: _____

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____

Jar#: _____

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Cone#: 7/22

Final Vol: 9.6 mL

Initial Weight: _____ g

Final Weight: 14.1 g

Net Weight: _____ g

Sample ID: _____

Appearance/Narrative: _____

Requestor: _____

BULK DENSITY WORKSHEET

Date: 5-30-96

Tank: 4-102
Core: 144
Seg: 1.1H
Auger: _____

Start Time: _____
End Time: _____
Homogenization
Time (Min.): _____

Jar #: 9460
Jar/Vial Size: 125 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone #: 602
Final Vol: 9.5 mL
Initial Weight: 7.45 g
Final Weight: 23.30 g
Net Weight: _____ g

Appearance/Narrative: _____

Bulk Den = $\frac{58.5}{4.5} = 1.67 \text{ g/mL}$

Tank: _____
Core: _____
Seg: _____
Auger: _____

Start Time: _____
End Time: _____
Homogenization
Time (Min.): _____

Jar #: 9460
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: 23.30 g
Net Weight: 23.30 g

Cone #: _____
Final Vol: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Appearance/Narrative: _____

WHC-SD-WM-CP-189, REV. 1

022

Requestor: _____

Date: 5/30/96

Tank: 0102
 Core: 144
 Seg: 16H
 Auger: _____

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____

Jar#: 9462
 Jar/Vial Size: mL
 Initial Weight: g
 Final Weight: g
 Net Weight: g

Cone#: 62
 Final Vol: 26.37 mL
 Initial Weight: 7.66 g
 Final Weight: 26.37 g
 Net Weight: 18.71 g

Appearance/Narrative: _____

Bulk Den = 1.67 g/cc

Tank: 0102
 Core: 144
 Seg: 16H
 Auger: _____

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____

Jar#: 10624
 Jar/Vial Size: mL
 Initial Weight: g
 Final Weight: g
 Net Weight: g

Cone#: 24
 Final Vol: 11.5 mL
 Initial Weight: 7.47 g
 Final Weight: 28.30 g
 Net Weight: 20.83 g

Appearance/Narrative: _____

Bulk Den = 2.08 g/cc

2552
 LC
 631-96

Requestor: F. Steen Bulk Density Worksheet

Date: 5-30-96

Tank: U-102
Core: 144
Seg: 347
Auger: —

Tank: U-102
Core: 144
Seg: 3 LH
Auger: —

Start Time: —
End Time: —
Homogenization Time (Min.): —

Jar#: 10023
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

Cone#: 23
Final Vol: 12.8 mL
Initial Weight: 7.66 g
Final Weight: 29.60 g
Net Weight: 21.94 g

Appearance/Narrative: Bulk Density = 21.94 / 12.8 = 1.71 g/mL

Start Time: —
End Time: —
Homogenization Time (Min.): —

Jar#: 10026
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

Cone#: 26
Final Vol: — mL
Initial Weight: 2.67 g
Final Weight: 24.63 g
Net Weight: 16.96 g

Appearance/Narrative: Bulk Density = 16.96 / 10 = 1.70 g/mL

Requestor: _____

Tank: U102
 Core: C/44
 Seg: 4UH
 Auger: _____

Start Time: _____
 End Time: _____

Homogenization
 Time (Min): _____

Jar#: 10339

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Conc#: 39Final Vol: 10 mLInitial Weight: 17.0 gFinal Weight: 24.72 gNet Weight: 17.02 g

2781
 2782

2781
 2782
 2783
 2784

Start Time: _____
 End Time: _____

Homogenization
 Time (Min): _____

Jar#: 10035

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Conc#: 35Final Vol: 11.8 mLInitial Weight: 7.63 gFinal Weight: 24.7 gNet Weight: 19.07 g

Appearance/Narrative: _____

Bulk Den $\frac{17}{10} = 1.70$ g/mL

Appearance/Narrative: _____

Bulk Den $\frac{19.07}{11.8} = 1.61$ g/mL

Date: 5/30/96

Tank: U102
 Core: J44
 Seg: 4UH
 Auger: _____

2782
 2783

Jar#: 10035

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Conc#: 35Final Vol: 11.8 mLInitial Weight: 7.63 gFinal Weight: 24.7 gNet Weight: 19.07 g

Appearance/Narrative: _____

Bulk Den $\frac{19.07}{11.8} = 1.61$ g/mL

WMC-SD-WM-DP-189, REV. /

Requestor: T. Steer

Tank: 4402

Core: 144

Seg: 54H

Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10042 mL

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Cone#: 42

Final Vol: 11.9 mL

Initial Weight: 7.68 g

Final Weight: 27.12 g

Net Weight: 19.44 g

Appearance/Narrative:

Bulk Den = 19.44

= 1.63 gm/ml

2783

✓

✓ 5-31-96

Tank: 4402

Core: 144

Seg: 54H

Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10089 mL

Jar/Vial Size: _____ mL

Initial Weight: _____ g

Final Weight: _____ g

Net Weight: _____ g

Cone#: 89

Final Vol: 11.5 mL

Initial Weight: 7.71 g

Final Weight: 28.12 g

Net Weight: 20.41 g

Appearance/Narrative:

Bulk Den = 20.41

= 1.17 gm/ml

2784

✓

Date: 5/30/96

Tank: 11-12.2
Core: 174
Seg: 6.44
Auger: 1

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10051
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc#: 51
Final Vol: 8.2 mL
Initial Weight: 7.62 g
Final Weight: 20.82 g
Net Weight: 13.2 g

Appearance/Narrative:

PK DS NO 13.20/8.2 = 1.61 g/mL

Tank: 11-102
Core: 174
Seg: 6.24
Auger: 1

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 10057
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc#: 57
Final Vol: 11.5 mL
Initial Weight: 7.72 g
Final Weight: 26.92 g
Net Weight: 19.20 g

Appearance/Narrative:

PK DS NO 19.20/11.5 = 1.67 g/mL

Bulk Density Worksheet

Requestor: Steen

Tank: 11-102
Core: 144
Seg: Comp
Auger: --
Sample ID: ---

Start Time: ---
End Time: ---
Homogenization Time (Min.): ---

Jar#: 10436
Jar/Vial Size: 125 mL
Initial Weight: 7.37 g
Final Weight: 7.37 g
Net Weight: 0 g

Cone#: 36
Final Vol: 9.4 mL
Initial Weight: 7.6 g
Final Weight: 23.1 g
Net Weight: 15.5 g
Sample ID: 5967003669

Appearance/Narrative: BULK DENSITY = 15.5 / 9.4 = 1.65 g/cc

Date: 7/23/96

Tank: ---
Core: ---
Seg: ---
Auger: ---
Sample ID: ---

Start Time: ---
End Time: ---
Homogenization Time (Min.): ---

Jar#: ---
Jar/Vial Size: --- mL
Initial Weight: --- g
Final Weight: --- g
Net Weight: --- g

Cone#: ---
Final Vol: --- mL
Initial Weight: --- g
Final Weight: --- g
Net Weight: --- g
Sample ID: ---

Appearance/Narrative: ---

LABCORE Data Entry Template for Worklist#

10466

Analyst: DGD **Instrument:** DSC0 1 **Book #** 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-102 DSC RUSH Run under N2.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>28.6</u>	<u>N/A</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T003609 0		DSC-01	SOLID	<u>N/A</u>	<u>15.8</u>		Joules/g
96000569	U-102	3 DUP	S96T003609 0		DSC-01	SOLID	<u>15.8</u>	<u>14.8</u>	<u>N/A</u>	Joules/g

Final page for worklist #

10466

See attached for signatures

Analyst Signature **Date** 7-1-96

Analyst Signature **Date**

Verified/Validated by
Blandina Valenzuela
7-1-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10466

Analyst: Dcd Instrument: DSC0 _____ Book # 12N14B

Method: LA-514-114 Rev/Mod _____

Worklist Comment: U-102 DSC RUSH Run under N2.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID			N/A	Joules/g
96000569	U-102	2 SAMPLE	S96T003609	0	DSC-03	SOLID	N/A			Joules/g
96000569	U-102	3 DUP	S96T003609	0	DSC-03	SOLID			N/A	Joules/g

Final page for worklist #

10466

Daniel D. Dunham 6-28-96
Analyst Signature Date

Analyst Signature Date

DSC-01 instrument
was used

7-1-96

Blandina
Valenzuela

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 238 TO 240.

DSC STD 12N14-B

6.632 mg

Rate: 10.0 °C/min

File: 00034.001 DSC METTLER 28-Jun-96

Ident: 0.0 222-S Laboratory

Integration

Delta H 187 mJ

28.6 J/g

Peak 158.8°C

-10.3 mW

exo v

10. mW

S96T003609 SAM N2

11.722 mg

Rate: 10.0 °C/min

File: 00040.001

Ident: 0.0

DSC METTLER

28-Jun-86

222-S Laboratory

exo

Integration
Delta H 7294 mJ
622.3 J/g
Peak 104.9°C
-22.5 mW

Integration
Delta H 1001 mJ
85.4 J/g
Peak 273.6°C
-4.5 mW

Integration
Delta H 185 mJ
15.8 J/g
Peak 412.1°C
3.6 mW

20. mW

100.

200.

300.

400.

°C

S96T003609 DUP N2

24.690 mg

Rate: 10.0 °C/min

File: 00042.001

Ident: 0.0

28-Jun-96

DSC METTLER

222-S Laboratory

LABCORE Data Entry Template for Worklist#

10517

Analyst: SMF Instrument: DSC0 1 Book # 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	UNIT
		1 STD			DSC-01	SOLID	<u>28.15</u> <u>27.8</u>	<u>27.8</u>	Joules/g
96000569	U-102	2 SAMPLE	S96T002646	0	DSC-01	SOLID	N/A	<u>54.0</u>	Joules/g
96000569	U-102	3 DUP	S96T002646	0	DSC-01	SOLID	<u>54.0</u>	<u>47.1</u>	Joules/g

Final page for worklist # 10517

Smullen 7-4-96
Analyst Signature Date

Anastor 8-19-96
Analyst Signature Date
Data Entry +
Validation

Data Entry Comments: The results given are the results of two
exotherms.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 242 TO 244.

DSC STD 12N14B

7.980 mg

Rate: 10.0 °C/min

File: 00072.001 DSC METTLER 04-JUL-86

Ident: 0.0 222-S Laboratory

Integration

Delta H 214 mJ

27.8 J/g

Peak 158.3°C

-14.0 mW

SM FULTON

exo

20. mW

WHC-SD-WM-DP-189, REV. 1

120.

140.

160.

°C

SM Fulton 7-18-96

S96T002646 N2

21.349 mg

Rate: 10.0 °C/min

File: 00077.001 DSC METTLER 04-JUL-88

Ident: 0.0 222-8 Laboratory

WHC-SD-WM-DP-189, REV. |

S96T002646 DUP N2

35.162 mg

Rate: 10.0 °C/min

File: 00079.001 DSC METTLER 04-JUL-98
Ident: 0.0 222-S Laboratory

exo

50. mW

WHC-SD-WM-DP-189, REV. I

LABCORE Data Entry Template for Worklist#

10529

Analyst: HLA Instrument: DSC0 1 Book # N4

Method: LA-514-113 Rev/Mod D-1 C-1 JS 8/22/96

Worklist Comment: U-102 Dry DSC hla

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000569	U-102	1 SAMPLE	S96T003609	0	DSC-02	SOLID	<u>N/A</u>	<u>20.87</u>		Joules/g Dry
96000569	U-102	2 DUP	S96T003609	0	DSC-02	SOLID	<u>20.87</u>	<u>19.55</u>	<u>N/A</u>	Joules/g Dry

Final page for worklist #

10529

James Hla 7/2/96
Analyst Signature Date

Analyst Signature Date

Validated 7-2-96 Hla

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10728

Analyst: ADP Instrument: DSC0 1 Book # 12N14BMethod: LA-514-113 Rev/Mod C-1

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	30.6 *	N/A	Joules/g
96000569	U-102	2 SAMPLE	S96T002778	1	DSC-01	SOLID	N/A	71.4		Joules/g
96000569	U-102	3 DUP	S96T002778	1	DSC-01	SOLID	71.4	93.4	N/A	Joules/g

Final page for worklist # 10728

[Signature] 7-11-96
Analyst Signature Date

[Signature] 7-12-96
Analyst Signature Date

Verified/Validated by
Blandina
Valenzuela
7-15-96

Data Entry Comments:

Sample results are the sum of two exotherms.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 248 TO 250

DSC STD 12N14-B N2

7.680 mg

Rate: 10.0 °C/min

File: 00024.001 DSC METTLER 11-Jul-96

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H 235 mJ
Peak 157.7 °C
-15.2 mW

20. mW

S96T002778 SAM N2

24.399 mg

Rate: 10.0 °C/min

File: 00030.001 DSC METTLER 12-Jul-98

Ident: 0.0 222-S Laboratory

Integration

Delta H 12792 mJ

524.3 J/g

Peak 108.6°C

-29.4 mW

Integration
Delta H 680 mJ

27.9 J/g

386.1°C

3.2 mW

Integration

Delta H 975 mJ Peak

39.9 J/g

Peak 275.5°C

-6.7 mW

Integration

Delta H 1062 mJ

43.5 J/g

Peak 214.3°C

4.8 mW

S95T002778 DUP N2
 17.700 mg
 Rate: 10.0 °C/min
 File: 00032.001 DSC METTLER 12-Jul-96
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

11172

Analyst: SMF Instrument: DSC0 1 Book # 12N14-B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: U-102 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.2</u>	<u>*</u>	<u>N/A</u> Joules/g
96000569	U-102	2 SAMPLE	S96T003670	0	DSC-01	SOLID	<u>N/A</u>	<u>184.9</u>		Joules/g
96000569	U-102	3 DUP	S96T003670	0	DSC-01	SOLID	<u>184.9</u>	<u>128.3</u>	<u>N/A</u>	Joules/g
96000536	U-102	4 SAMPLE	S96T003678	0	DSC-01	SOLID	<u>N/A</u>	<u>160.1</u>		Joules/g
96000536	U-102	5 DUP	S96T003678	0	DSC-01	SOLID	<u>160.1</u>	<u>128.2</u>	<u>N/A</u>	Joules/g

Final page for worklist #

11172

Smfulson 7-30-96
Analyst Signature Date

De Peter 8-6-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela
8-7-96

S96T003670 results are the sum of several exotherms

Data Entry Comments: S96T003678 results are the sum of two exotherms

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 252 TO 256

DSC STD 12N14-B

13.760 mg

Rate: 10.0 °C/min

File: 00085.001 DSC METTLER 30-Jul-96

Ident: 0.0 222-S Laboratory

exo

10. MW
252

Integration
Delta H 415 mJ
30.2 J/g
Peak 160.4 °C
-20.7 mW

120.

140.

160.

°C

Signature 7-30-96

S96T003670 N2

15.551 mg

Rate: 10.0 °C/min

File: 00095.001 DSC METTLER 30-JUL-96

Ident: 0.0 222-S Laboratory

exo >

100. 200. 300. 400. °C

28.678 mg

Rate: 10.0 °C/min

Ident: 0.0 222--9 Laboratory

S96T003678 N2

13.735 mg

Rate: 10.0 °C/min

File: 00098.001

DSC METTLER 31-JUL-86

Ident: 0.0 222-8 Laboratory

exo >

20. mW

°C

400.

300.

200.

100.

S96T003678 DUP N2
 20.294 mg
 Rate: 10.0 °C/min
 File: 00099.001 DSC METTLER 31-JUL-88
 Ident: 0.0 222-S Laboratory

exo

100. 200. 300. 400. °C

WHC-SD-WM-DP-189, REV. I
LABCORE Data Entry Template for Worklist# 12090

Analyst: BDV **Instrument:** DSC01 **Method:** LA-514-113 **Book #**

Worklist Comment: Dry DSC for U-102.bdv

Seg	Type	Sample#	Rep	AI	Test	Matrix	Actual	Found	DL	Unit
1	SAMPLE	S96T003670	0		DSC-02	SOLID	N/A	289.290		Joules/
2	DUP	S96T003670	0		DSC-02	SOLID	290	201	N/A	Joules/
3	SAMPLE	S96T003678	0		DSC-02	SOLID	N/A	276		Joules/
4	DUP	S96T003678	0		DSC-02	SOLID	276	221	N/A	Joules/
5	SAMPLE	S96T002646	1		DSC-02	SOLID	N/A	81.1		Joules/
6	DUP	S96T002646	1		DSC-02	SOLID	81.1	70.7	N/A	Joules/
7	SAMPLE	S96T002778	1		DSC-02	SOLID	N/A	116		Joules/
8	DUP	S96T002778	1		DSC-02	SOLID	116	150	N/A	Joules/

Final page for worklist # 12090

Blandina Valenzuela 8-19-96
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

253

LABCORE Data Entry Template for Worklist#

10074

Analyst: ADP

Instrument: TGA0 3

Book # 82N8A

Method: LA-514-114 Rev/Mod B-1

Worklist Comment: TGA U-102 Reruns. Run under N2. RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.42</u>	<u>59.43</u>	N/A	%
96000536	U-102	2 SAMPLE	596T002344	1	TGA-03	SOLID	N/A	<u>28.1</u>		%
96000536	U-102	3 DUP	596T002344	1	TGA-03	SOLID	<u>28.1</u>	<u>31.81</u>	N/A	%

Final page for worklist #

10074

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Sample results are the sum of two weight loss
steps.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 257.1 TO 259.3

S96T002344 SAM N2

19.080 mg

Rate: 10.0 °C/min

File: 00029.001 TG METTLER 20-Jun-88
Ident: 0.0 222-8 Laboratory

2.552

S96T002344 DUP N2
11.718 mg
Rate: 10.0 °C/min
File: 00030.001 TG METTLER 20-Jun-86
Ident: 0.0 222-8 Laboratory

LABCORE Data Entry Template for Worklist#

10467

Analyst: DCD Instrument: TGA0 1 Book # 82N8A
Method: LA-560-112 Rev/Mod B-1
Worklist Comment: U-102 TGAs RUSH Run under N2.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.96</u>	<u>N/A</u>	%
96000569	U-102	2 SAMPLE	S96T003609	0	TGA-01	SOLID	<u>N/A</u>	<u>28.09</u>		%
96000569	U-102	3 DUP	S96T003609	0	TGA-01	SOLID	<u>28.09</u>	<u>20.5</u>	<u>N/A</u>	%

Final page for worklist # 10467

See attached for signatures
Analyst Signature DCD Date 7-1-96

Analyst Signature _____ Date _____

Verified/validated by
Blandina
Valenzuela
7-1-96

Data Entry Comments:

Results are the sum of two weight loss steps.

LABCORE Data Entry Template for Worklist#

10467

Analyst: DD Instrument: TGA0 _____ Book # 82N8A

Method: LA-514-114 Rev/Mod _____

Worklist Comment: U-102 TGAs RUSH Run under N2.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	_____	_____	N/A	%
96000569	U-102	2 SAMPLE	S96T003609	0	TGA-03	SOLID	N/A	_____	_____	%
96000569	U-102	3 DUP	S96T003609	0	TGA-03	SOLID	_____	_____	N/A	%

Final page for worklist #

10467

Daniel D. Dunham 6-28-96
Analyst Signature Date

Analyst Signature Date

TGA-01 instrument
was used.

6-7-96

Blandina Valenzuela

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 262 TO 264

TGA STD 82NB-A

20.586 mg

Rate: 10.0 °C/min

File: 00035.001

TG METTLER

28-Jun-96

Ident: 0.0

222-8 Laboratory

Step Analysis

Height-12.14 mg

-58.96 %

Resid. 8.45 mg

41.04 %

Dpeak 89.2°C

5. mg

S96T003609 SAM N2

27.139 mg

Rate: 10.0 °C/min

File: 00041.001 TG METTLER 28-Jun-96

Ident: 0.0 222-S Laboratory

Step Analysis

Height -4.04 mg

-14.88 %

ResidC. 23.10 mg

85.12 %

Step Analysis

Height -3.58 mg

-13.21 %

ResidC. 19.52 mg

71.91 %

Dpeak 149.0 °C

Step Analysis

Height -0.58 mg

-2.14 %

ResidC. 18.94 mg

69.78 %

Dpeak 431.0 °C

S96T003609 DUP N2

34.316 mg

Rate: 10.0 °C/min

File: 00043.001 TG METTLER 28-Jun-86
Ident: 0.0 222-8 Laboratory

Step Analysis
Height -3.46 mg
-10.09 %
Resic. 30.85 mg
89.91 %

Step Analysis
Height -3.57 mg
-10.41 %
Resic. 27.28 mg
79.50 %
Dpeak 151.0 °C

Step Analysis
Height -0.63 mg
-1.85 %
Resic. 26.65 mg
77.65 %
Dpeak 295.0 °C

LABCORE Data Entry Template for Worklist#

10516

Analyst: SME Instrument: TGA01 _____ Book # 7508-A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-102 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.33</u>	<u>N/A</u>	%
96000569	U-102	2 SAMPLE	S96T002636	0	TGA-01	SOLID	<u>N/A</u>	<u>12.63</u>		%
96000569	U-102	3 DUP	S96T002636	0	TGA-01	SOLID	<u>12.63</u>	<u>12.66</u>	<u>N/A</u>	%
96000569	U-102	4 SAMPLE	S96T002646	0	TGA-01	SOLID	<u>N/A</u>	<u>33.09</u>		%
96000569	U-102	5 DUP	S96T002646	0	TGA-01	SOLID	<u>33.09</u>	<u>33.69</u>	<u>N/A</u>	%

Final page for worklist #

10516

SME
Analyst Signature Date 7-4-96

Hharto
Analyst Signature Date 8-19-96
Data Entry &
Validation

Data Entry Comments:

S96T002636 is the sum of two weight loss steps
S96T002646 is the sum of two weight loss steps

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 216 TO 220.

TGA STD 75N8-A
17.148 mg

Rate: 10.0 °C/min

File: 00073.001 TG METTLER 04-JUL-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-10.00 mg
-58.33 %
Resid. 7.15 mg
41.67 %
Dpeak 81.7 °C

SM FULTON

5. mg

50.

100.

150.

200.

°C

SM Fulton

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 1 TO 1 *L.H.D.*
8-23/96

S96T002636 N2

20.832 mg

Rate: 10.0 °C/min

File: 00075.001 TG METTLER 04-Jul-96

Ident: 0.0 222-S Laboratory

Step Analysis
 Height -2.49 mg
 -11.97 %
 Resic. 18.34 mg
 88.03 %
 Dpeak 47.0 °C

Step Analysis
 Height -0.14 mg
 -0.66 %
 Resic. 18.20 mg
 87.35 %

Step Analysis
 Height -0.14 mg
 -0.68 %
 Resic. 18.00 mg
 86.39 %

1. mg

100. 200. 300. 400. °C

WHC-SD-WM-DP-189, REV. I

S96T002636 DUP N2
 26.452 mg
 Rate: 10.0 °C/min
 File: 00076.001 TG METTLER 04-Jul-96
 Ident: 0.0 222-S Laboratory

Step Analysis
 Height -3.17 mg
 -12.00 %
 ResiC. 23.28 mg
 88.00 %
 Dpeak 53.0 °C

Step Analysis
 Height -0.17 mg
 -0.66 %
 ResiC. 23.07 mg
 87.21 %

Step Analysis
 Height -0.16 mg
 -0.59 %
 ResiC. 22.84 mg
 86.36 %

File: 00078.001 TG METTLER 04-Jul-96
 Ident: 0.0 222-S Laboratory

S96T002646 N2
 24.335 mg Rate: 10.0 °C/min

S96T002646 DUP N2

20.559 mg

Rate: 10.0 °C/min

File: 00080.001 TG METTLER 04-JUL-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height -2.15 mg
-10.46 %
ResiC. 18.41 mg
89.54 %

Step Analysis
Height -4.78 mg
-23.23 %
ResiC. 13.63 mg
66.31 %
Dpeak 137.0 °C

5. mg

WHC-SD-WM-DP-189, REV.1

100. 200. 300. 400. °C

LABCORE Data Entry Template for Worklist#

10726

Analyst: ADD **Instrument:** TGA0 1 **Book #** 82N8-A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-102 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>59.12*</u>	<u>N/A</u>	X
96000569	U-102	2 SAMPLE	S96T002647 1		TGA-01	SOLID	<u>N/A</u>	<u>11.59</u>		X
96000569	U-102	3 DUP	S96T002647 1		TGA-01	SOLID	<u>11.59</u>	<u>10.25</u>	<u>N/A</u>	X

Final page for worklist # 10726

7-11-96
Analyst Signature Date

7-12-96
Analyst Signature Date

Verified/Validated by
Blandina
Valenzuela
7-15-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 272 TO 274.

TGA STD 82N8-A N2

25.130 mg

Rate: 10.0 °C/min

File: 00025.001

TG METTLER

11-Jul-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height-14.86 mg
-59.12 %
Resid. 10.27 mg
40.88 %
Dpeak 94.2 °C

S96T002647 SAM N2

24.817 mg

Rate: 10.0 °C/min

File: 00031.001

TG

12-Jul-88

Ident: 0.0 222-S Laboratory

Step Analysis

Height -2.88 mg

-11.59 %

Resid. 21.94 mg

88.41 %

Dpeak 57.0 °C

Step Analysis

Height -0.35 mg

-1.40 %

Resid. 21.59 mg

87.01 %

Step Analysis

Height -0.11 mg

-0.45 %

Resid. 21.48 mg

86.56 %

S96T002647 DUP N2

25.038 mg

Rate: 10.0 °C/min

File: 00033.001

TG

METTLER

12-Jul-88

Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

11162

Analyst: AD Instrument: TGA0 1 Book # 82N8A

Method: LA-560-112 Rev/Mod B-1

Worklist Comment: U-102 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.95*</u>	<u>N/A</u>	%
96000569	U-102	2 SAMPLE	S96T003670	0	TGA-01	SOLID	<u>N/A</u>	<u>37.06</u>		%
96000569	U-102	3 DUP	S96T003670	0	TGA-01	SOLID	<u>37.06</u>	<u>35.32</u>	<u>N/A</u>	%
96000536	U-102	4 SAMPLE	S96T003678	0	TGA-01	SOLID	<u>N/A</u>	<u>43.36</u>		%
96000536	U-102	5 DUP	S96T003678	0	TGA-01	SOLID	<u>43.36</u>	<u>40.68</u>	<u>N/A</u>	%

Final page for worklist #

11162

Anthony Purnita 7-29-96
Analyst Signature Date

Linda Conlin 7/31/96
Analyst Signature Date

Verified/Validated by
Blandina
Valenzuela
8-1-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 276 TO 280.

TGA STD 82N8-A
17.154 mg
Rate: 10.0 °C/min
File: 00065.001 TG METTLER 29-Jul-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-10.11 mg
-58.95 %
Resid. 7.04 mg
41.05 %
Dpeak 85.0 °C

File: 00077.001 TG METTLER 29-Jul-96
 Ident: 0.0 222-S Laboratory

S96T003670 SAM N2
 33.821 mg Rate: 10.0 °C/min

Step Analysis
 Height -5.10 mg
 -15.09 %
 Resid. 28.72 mg
 84.91 %

Step Analysis
 Height -6.83 mg
 -20.20 %
 Resid. 21.88 mg
 64.71 %

Step Analysis
 Height -0.34 mg
 -1.00 %
 Resid. 20.95 mg
 61.93 %
 Dpeak 407.0 °C

Step Analysis
 Height -0.60 mg
 -1.77 %
 Resid. 21.28 mg
 62.93 %

S96T003670 DUP N2

38.181 mg

Rate: 10.0 °C/min

File: 00079.001

TG METTLER

29-Jul-96

Ident: 0.0

222-S Laboratory

Step Analysis

Height -6.95 mg

-18.21 %

ResiC. 31.23 mg

81.79 %

Step Analysis

Height -6.53 mg

-17.11 %

ResiC. 24.70 mg

64.69 %

Step Analysis

Height -0.84 mg

-2.20 %

ResiC. 23.86 mg

62.49 %

27.3
0.5 in

100. 200. 300. 400. °C

S96T003678 SAM N2

25.048 mg

Rate: 10.0 °C/min

File: 00081.001 TG METTLER 30-Jul-96
 Ident: 0.0 222-S Laboratory

Step Analysis

Height -8.82 mg

-35.21 %

ResidC. 16.23 mg

64.79 %

Step Analysis

Height -2.04 mg

-8.15 %

ResidC. 14.19 mg

56.64 %

Step Analysis

Height -0.55 mg

-2.18 %

ResidC. 13.64 mg

54.46 %

273
 5 mg

100. 200. 300. 400. °C

S96T003678 DUP N2
 37.890 mg
 Rate: 10.0 °C/min
 File: 00083.001 TG METTLER 30-Jul-96
 Ident: 0.0 222-S Laboratory

worklistrpt Version 2.1 05/15/95
05/28/96 10:50

Page: 1

LABCORE Data Entry Template for Worklist#

9246

Analyst:

DPB

Instrument: BA001

Book #

133N/6A

Method: LA-510-112 Rev/Mod

C-3

Worklist Comment: U-102 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	1.38	1.380	N/A	Sp.G.
96000536	U-102	2 SAMPLE	S96T002323	0	SPG-01	LIQUID	N/A	1.402	1.397	Sp.G.
96000536	U-102	3 DUP	S96T002323	0	SPG-01	LIQUID	1.402	1.402	N/A	Sp.G.

Final page for worklist #

9246

Analyst Signature

Date

5/31/96 1630

Analyst Signature

Date

2/11/96 6-4-96

Approved RW Schmedt 6/6/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

STD		STD	REPLICATE
	Gross Weight (W2)	2.0531	2.0405
	Tare Weight (W1)	1.8446	1.8346
9246	Weight of Solution (W2-W1)	0.20854	0.20597
	Volume of Solution μ L	150.1700	150.1700
SPG-01	Specific Gravity	1.3887	1.3716
	Specific Gravity (Average)	1.3801	
LIQUID			
S96T002323			
BA001	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
05/31/96	v RESULT v		
	Specific Gravity Average =	1.380	

Data Entry by:	RTS	Date:	06/04/96
Approved by:	RW Schoedon	Date:	6/6/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

SAMPLE	Gross Weight (W2)	SAMPLE	REPLICATE
	Tare Weight (W1)	2.0283	
9246	Weight of Solution (W2-W1)	1.8185	
	Volume of Solution μL	0.20983	0
SPG-01	Specific Gravity	150.1700	
		1.3973	NA
LIQUID			
S96T002323			
BA001	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
DPB	Tare Weight (W1) = Wt. of vial + cap + cotton		
05/31/96	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
	✓ RESULT ✓		
	Specific Gravity =	1.397	

Data Entry by:	<i>RTS</i>	Date:	06/04/96
Approved by:	<i>RWSchoedel</i>	Date:	6/6/96
Form 510112L1 Rev. 1.1		Page 1 of 1	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

SAMPLE/DUP	Gross Weight (W2)	SAMPLE/DUP	REPLICATE
	Tare Weight (W1)	2.0674	
9246	Weight of Solution (W2-W1)	1.8569	
	Volume of Solution μL	0.21049	0
SPG-01	Specific Gravity	150.1700	
		1.4017	NA
LIQUID			
S96T002323			
BA001	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
05/31/96	$\checkmark$ RESULT $\checkmark$		
	Specific Gravity =	1.402	

Data Entry by:	RWS	Date:	06/04/96
Approved by:	RW Schmechel	Date:	6/6/96

Worklistrpt Version 2.1 05/15/95
6/03/96 14:55

Page: 1

LABCORE Data Entry Template for Worklist#

9550

Analyst: SMF Instrument: BA001 Book # 133N/16-A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: U-102 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.398</u>	<u>1.358</u>	<u>N/A</u>	Sp.G.
96000569	U-102	2 SAMPLE	S96T002549	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.363</u>	<u>0.01</u>	Sp.G.
96000569	U-102	3 DUP	S96T002549	0	SPG-01	LIQUID	<u>1.363</u>	<u>1.341</u>	<u>N/A</u>	Sp.G.
96000569	U-102	4 SAMPLE	S96T002762	0	SPG-01	LIQUID	<u>N/A</u>	<u>.976</u>	<u>0.01</u>	Sp.G.
96000569	U-102	5 DUP	S96T002762	0	SPG-01	LIQUID	<u>.976</u>	<u>.979</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

9550

Susan M. Fulton 6-11-96
Analyst Signature Date 1440

Rita L. 6-12-96
Analyst Signature Date

Approved by [Signature] 6/12/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0474	2.0547
Work List	Tare Weight (W1)	1.8428	1.8515
9550	Weight of Solution (W2-W1)	0.2046	0.2032
Test Code	Volume of Solution μ L	150.1700	150.1700
SPG-01	Specific Gravity	1.3625	1.3531
Matrix	Specific Gravity (Average)	1.3578	
LIQUID			
Sample #			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
SM FULTON			
Date			
06/11/96	v RESULT v		
Time	Specific Gravity Average =	1.358	
02:40 PM			

Data Entry by:	<i>PJS</i>	Date:	06/12/96
Approved by:	<i>RW Schmitt</i>	Date:	6/12/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0390	
Work List	Tare Weight (W1)	1.8343	
9550	Weight of Solution (W2-W1)	0.2047	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.3631	NA
Matrix			
LIQUID			
Sample #			
S96T002549			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$		
SM FULTON			
Date			
06/11/96	v RESULT v		
Time	Specific Gravity =	1.363	
02:40 PM			

Data Entry by:	RIS	Date:	06/12/96
Approved by:	RW Schmedt	Date:	6/12/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		DUPLICATE	REPLICATE
DUPLICATE	Gross Weight (W2)	2.0503	
Work List	Tare Weight (W1)	1.8489	
9550	Weight of Solution (W2-W1)	0.2014	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.3411	NA
Matrix			
LIQUID			
Sample #			
S96T002549			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
SM FULTON			
Date			
06/11/96	v RESULT v		
Time	Specific Gravity =	1.341	
02:40 PM			

Data Entry by:	RIS	Date:	06/12/96
Approved by:	Rw. Schneider	Date:	6/12/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0258	
Work List	Tare Weight (W1)	1.8792	
9550	Weight of Solution (W2-W1)	0.1466	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9762	NA
Matrix			
LIQUID			
Sample #			
S96T002762			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
SM FULTON	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$		
Date			
06/11/96	v RESULT v		
Time	Specific Gravity =	0.976	
02:40 PM			

Data Entry by:	<i>RTS</i>	Date:	06/12/96
Approved by:	<i>RW Schneider</i>	Date:	6/12/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		DUPLICATE	REPLICATE
DUPLICATE	Gross Weight (W2)	1.9596	
Work List	Tare Weight (W1)	1.8126	
9550	Weight of Solution (W2-W1)	0.147	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9789	NA
Matrix			
LIQUID			
Sample #			
S96T002762			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
SM FULTON	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
06/11/96	v RESULT v		
Time	Specific Gravity =	0.979	
02:40 PM			

Data Entry by:	PTS	Date:	06/12/96
Approved by:	RW Schmedin	Date:	6/12/96

LABCORE Data Entry Template for Worklist#

9391

Analyst: JSB Instrument: PH01 Book # 79N8Method: LA-211-102 Rev/Mod C-0

Worklist Comment: U-102 OH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			OH-01	LIQUID	<u>1.66^{et}</u>	<u>1.73^{et}</u>	N/A	ug/mL
		2 BLNK			OH-01	LIQUID	<u>1</u>	<u><42^{E3}</u>	N/A	ug/mL
96000536	U-102	3 SAMPLE	S96T002524	0	OH-01	LIQUID	N/A	<u>2.24^{et}</u>	<u>2.50^{et}</u>	ug/mL
96000536	U-102	4 DUP	S96T002524	0	OH-01	LIQUID	<u>2.24^{et}</u>	<u>2.04^{et}</u>	N/A	ug/mL

Final page for worklist #

9391

Analyst Signature: JSB Date: 6-1-96Analyst Signature: RLT Date: 6-10-96O. 2005 M HNO3Approved RW Shroder
6/10/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

std.

C00= .050ml

date 96-06-01 time 02:19
GET pH 12 # 174
Id.#1 0000
Id.#2 .2005
pH(init) 11.68
V/ml pH
EP1 .254 9.86
FIX-EP outside
manual stop
=====

date 96-06-01 time 02:19
GET pH 12 # 174
.10ml/div Δ pH=1/div
start V .000 ml

Blank

GET pH 12
date 96-06-01 time 02:03
GET pH 12 # 173
Id.#1 0000
Id.#2 .2005
pH(init) 5.05
V/ml pH
EP1 .003 4.32
EPA .000 3.00
stop volt.reached
=====

date 96-06-01 time 02:04
GET pH 12 # 173
.10ml/div Δ pH=1/div
start V .000 ml

S96T002524

C00= .050ml

date 96-06-01 time 02:54
GET pH 12 # 175
Id.#1 2524
Id.#2 .2005
pH(init) 11.75
V/ml pH
EP1 .328 10.24
EP2 .540 8.19
FIX-EP outside
manual stop
=====

date 96-06-01 time 02:55
GET pH 12 # 175
.10ml/div Δ pH=1/div
start V .000 ml

SFL# 79NB

C00= .050ml

date 96-06-07 time 11:17
GET pH 12 # 194
Id.#1 00000
Id.#2 .2005
pH(init) 11.68

	V/ml	pH
EP1	.250	9.84
EP2	.321	7.23

stop volt.reached

=====

date 96-06-07 time 11:17
GET pH 12 # 194
.10ml/div Δ pH=1/div
start V .000 ml

Blank

C00= 3.0ml

date 96-06-07 time 11:10
GET pH 12 # 193
Id.#1 00000
Id.#2 .2005
pH(init) 4.29

	V/ml	pH
EP1	.011	3.67

manual stop

=====

date 96-06-07 time 11:10
GET pH 12 # 193
.10ml/div Δ pH=1/div
start V .000 ml

5967002524 Dup

C00= .050ml

date 96-06-07 time 11:31
GET pH 12 # 195
Id.#1 2524
Id.#2 .2005
pH(init) 11.75

	V/ml	pH
EP1	.298	10.30
EP2	.495	8.18

stop volt.reached

=====

date 96-06-07 time 11:32
GET pH 12 # 195
.10ml/div Δ pH=1/div
start V .000 ml

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

	STD
Sample Size (mL) SS	0.050
STD	Concentration of HNO3 (Molarity)
	0.2005
	HNO3 Titrant at OH end-point in mL
	0.254
9391	Dilution Factor DF
	1
	Concentration of OH in Sample (Molarity)
	1.02E+00
OH-01	OH in Sample in µg/mL (PPM)
	1.73E+04

LIQUID

Detection Limit = 125µg / SS * DF

STD

Detection Limit (µg/mL)	2.50E+03
-------------------------	----------

PH-01

OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor

DGG

OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))

06/01/96

	STD
Concentration of OH in Sample (Molarity)	1.02E+00
OH in Sample in µg/mL (PPM)	1.73E+04

Data Entry by: <u>RTS</u>	Date: <u>06/04/96</u>
Approved by: <u>D.W. Schaefer</u>	Date: <u>6/10/96</u>

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

	Sample Size (mL) SS	BLANK
BLANK	Concentration of HNO ₃ (Molarity)	3.0 0.050
	HNO ₃ Titrant at OH end-point in mL	0.2005
9391	Dilution Factor DF	0.0 8.003
	Concentration of OH in Sample (Molarity)	1
OH-01	OH in Sample in µg/mL (PPM)	0.0 1.20E-02
		0.0 2.05E+02

LIQUID

BLANK

Detection Limit = 125µg / SS * DF

PH-01

Detection Limit (µg/mL)

<41.7

2.50E+03

DGG

OH Molarity = ((mL HNO₃)*(M HNO₃))/Sample Size in mL*Dilution Factor

06/01/96

OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))

BLANK

Concentration of OH in Sample (Molarity)

0.0 1.20E-02

OH in Sample in µg/mL (PPM)

<42 <2500

The Result is < Detection Limit

Data Entry by:

Date: 06/04/96

Approved by:

Date: 6/10/96

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RWS
6/10/96

RWS 6/10/96

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RWS 6/10/96RWS
6/10/96

RWS 6/10/96

RWS 6/10/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

	SAMPLE
Sample Size (mL) SS	0.050
SAMPLE Concentration of HNO3 (Molarity)	0.2005
HNO3 Titrant at OH end-point in mL	0.328
9391 Dilution Factor DF	1
Concentration of OH in Sample (Molarity)	1.32E+00
OH-01 OH in Sample in µg/mL (PPM)	2.24E+04

LIQUID

Detection Limit = 125µg / SS * DF

S96T002524

Detection Limit (µg/mL)

2.50E+03

PH-01

OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor

DGG

OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))

06/01/96

	SAMPLE
Concentration of OH in Sample (Molarity)	1.32E+00
OH in Sample in µg/mL (PPM)	2.24E+04

Data Entry by:

Date: 06/04/96

Approved by:

Date: 6/16/96

Form 211102_1 Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		Standard
	Sample Size (mL) SS	0.050
Standard	Concentration of HNO3 (Molarity)	0.2005
	HNO3 Titrant at OH end-point in mL	0.250
9391	Dilution Factor DF	1
	Concentration of OH in Sample (Molarity)	1.00E+00
OH-01	OH in Sample in µg/mL (PPM)	1.70E+04
Liquid		
Sample		
79N8		
Analysis Code		
OH Molarity	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
DGG	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
06/07/96		
Time		
	Concentration of OH in Sample (Molarity)	1.00E+00
	OH in Sample in µg/mL (PPM)	1.70E+04

Data Entry by:	RWS	Date:	06/10/96
Approved by:	RW Schlegel	Date:	6/10/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

OH (AUTO) : LA-211-102 (C-0)		Blank
	Sample Size (mL) SS	3.000
Blank	Concentration of HNO3 (Molarity)	0.2005
	HNO3 Titrant at OH end-point in mL	0.000
9391	Dilution Factor DF	1
	Concentration of OH in Sample (Molarity)	0.00E+00
OH-01	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Liquid		
Sample	Detection Limit = 125µg / SS * DF	
BNLK		
Interim Blank Code	Detection Limit (µg/mL)	4.17E+01
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
DGG		
ID#	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
06/07/96		
Time		
		Blank
	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<42

The Result is < Detection Limit

Data Entry by: RWS Date: 06/10/96
 Approved by: RW Schaefer Date: 6/10/96
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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		Duplicate
Sample Size (mL) SS		0.050
Duplicate	Concentration of HNO ₃ (Molarity)	0.2005
	HNO ₃ Titrant at OH end-point in mL	0.299
9391	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.20E+00
OH-01	OH in Sample in µg/mL (PPM)	2.04E+04
Matrix		
Liquid		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002524		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO ₃)*(M HNO ₃))/Sample Size in mL*Dilution Factor	
DGG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
06/07/96		
Time		
	Concentration of OH in Sample (Molarity)	1.20E+00
	OH in Sample in µg/mL (PPM)	2.04E+04

Data Entry by:	<i>RWS</i>	Date:	06/10/96
Approved by:	<i>Rui Schneider</i>	Date:	6/10/96

LABCORE Data Entry Template for Worklist#

10504

Analyst: RJ Instrument: PH01 Book # 79N8Method: LA-211-102 Rev/Mod C-0Worklist Comment: BECK'ANI U-102 OH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			OH-01	LIQUID	<u>1</u>	<u>2.50e⁺³</u>	N/A	ug/mL
		2 STD			OH-01	LIQUID	<u>1.64e⁺⁴</u>	<u>1.75e⁺⁴</u>	N/A	ug/mL
96000889	BECK3	3 SAMPLE	S96R000439	0	OH-01	LIQUID	N/A	<u>4.59e⁺⁴</u>	<u>2.50e⁺³</u>	ug/mL
96000889	BECK3	4 DUP	S96R000439	0	OH-01	LIQUID	<u>4.59e⁺⁴</u>	<u>4.54e⁺⁴</u>	N/A	ug/mL
96000892	BECK3	5 SAMPLE	S96R000449	0	OH-01	LIQUID	N/A	<u>4.69e⁺⁴</u>	<u>2.50e⁺³</u>	ug/mL
96000892	BECK3	6 DUP	S96R000449	0	OH-01	LIQUID	<u>4.69e⁺⁴</u>	<u>4.55e⁺⁴</u>	N/A	ug/mL
96000892	BECK3	7 SAMPLE	S96R000453	0	OH-01	LIQUID	N/A	<u>4.56e⁺⁴</u>	<u>2.50e⁺³</u>	ug/mL
96000892	BECK3	8 DUP	S96R000453	0	OH-01	LIQUID	<u>4.56e⁺⁴</u>	<u>4.61e⁺⁴</u>	N/A	ug/mL *
96000569	U-102	9 SAMPLE	S96T003622	0	OH-01	LIQUID	N/A	<u>2.35e⁺⁴</u>	<u>2.50e⁺³</u>	ug/mL
96000569	U-102	10 DUP	S96T003622	0	OH-01	LIQUID	<u>2.35e⁺⁴</u>	<u>2.44e⁺⁴</u>	N/A	ug/mL

Final page for worklist #

10504

Baclinn Green 07-07-96
Analyst Signature DateJudy Conlin 7-8-96
Analyst Signature Date

Approved RN Schneider 7/10/96

Data Entry Comments:

* QC FAILURE

RWS
7/10/96Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-189, REV. I

OH (AUTO) : LA-211-102 (C-0)

		BLANK
Type	Sample Size (mL) SS	0.050
BLANK	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.007
10504	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	2.81E-02
OH-01	OH in Sample in µg/mL (PPM)	4.77E+02
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
Instrument Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
07/07/96		
Time		
12:30 AM	Concentration of OH in Sample (Molarity)	2.81E-02
	OH in Sample in µg/mL (PPM)	<2500

The Result is < Detection Limit

Data Entry by:	<i>Jim Conlin</i>	Date:	07/08/96
Approved by:	<i>RW Conlin</i>	Date:	7/10/96

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-189, REV. I

OH (AUTO) : LA-211-102 (C-0)

		STANDARD
Type	Sample Size (mL) SS	0.050
STANDARD	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.257
10504	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.03E+00
OH-01	OH in Sample in µg/mL (PPM)	1.75E+04
Matrix		
LIQUID		
Sample #		
Instrument Code		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
07/07/96		
Time		
12:30 AM		
	Concentration of OH in Sample (Molarity)	1.03E+00
	OH in Sample in µg/mL (PPM)	1.75E+04

Data Entry by:	<i>John Conlin</i>	Date:	07/08/96
Approved by:	<i>R. W. Schwedler</i>	Date:	7/10/96

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-189, REV. I

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) SS	0.050
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.345
10504	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.38E+00
OH-01	OH in Sample in µg/mL (PPM)	2.35E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T003622		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
07/07/96		
Time		
12:30 AM		
	Concentration of OH in Sample (Molarity)	1.38E+00
	OH in Sample in µg/mL (PPM)	2.35E+04

Data Entry by:	<i>John Smith</i>	Date:	07/08/96
Approved by:	<i>R. J. Schreder</i>	Date:	7/10/96

Form 211102_1 Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-189, REV. I

OH (AUTO) : LA-211-102 (C-0)

		DUPLICATE
Type	Sample Size (mL) SS	0.050
DUPLICATE	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.358
10504	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.44E+00
OH-01	OH in Sample in µg/mL (PPM)	2.44E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T003622		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
07/07/96		
Time		
12:30 AM	Concentration of OH in Sample (Molarity)	1.44E+00
	OH in Sample in µg/mL (PPM)	2.44E+04

Data Entry by: <i>John Conner</i>	Date: 07/08/96
Approved by: <i>DW Schreder</i>	Date: 7/10/96

Form 211102_1 Rev. 1.3

Page 1 of 1

LABCORE Data Entry Template for Worklist#

10189

Analyst: JK Instrument: CN01 Book # 83N8DMethod: LA-695-102 Rev/Mod E-1

Worklist Comment: U-102/U-105 CN-03

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			CN-03	SOLID	<u>1</u>	<u><0.055</u>	<u>N/A</u>	ug/g
		2 STD			CN-03	SOLID	<u>972</u>	<u>936</u>	<u>N/A</u>	ug/g
96000536	U-102	3 SAMPLE	S96T002332	0	CN-03	SOLID	<u>N/A</u>	<u>17.7</u>	<u>2.74</u>	ug/g
96000536	U-102	4 DUP	S96T002332	0	CN-03	SOLID	<u>17.7</u>	<u>18.0</u>	<u>N/A</u>	ug/g
96000536	U-102	5 SPK	S96T002332	0	CN-03	SOLID	<u>100</u>	<u>91.1</u>	<u>N/A</u>	ug/g
96000536	U-102	6 SAMPLE	S96T002335	0	CN-03	SOLID	<u>N/A</u>	<u>22.7</u>	<u>2.53</u>	ug/g
96000536	U-102	7 DUP	S96T002335	0	CN-03	SOLID	<u>22.7</u>	<u>25.5</u>	<u>N/A</u>	ug/g
96000143	U-105 (R)	8 SAMPLE	S96T001453	0	CN-03	SOLID	<u>N/A</u>	<u>59.9</u>	<u>4.06</u>	ug/g
96000143	U-105 (R)	9 DUP	S96T001453	0	CN-03	SOLID	<u>59.9</u>	<u>62.6</u>	<u>N/A</u>	ug/g
96000143	U-105 (R)	10 SAMPLE	S96T001454	0	CN-03	SOLID	<u>N/A</u>	<u>132.2</u>	<u>3.66</u>	ug/g
96000143	U-105 (R)	11 DUP	S96T001454	0	CN-03	SOLID	<u>132.2</u>	<u>111.8</u>	<u>N/A</u>	ug/g
		12 CCV			CN-01	SOLID	<u>972</u>	<u>973.9</u>	<u>N/A</u>	ug/g
		13 CCB			CN-01	SOLID	<u>1</u>	<u><0.055</u>	<u>N/A</u>	ug/g

Final page for worklist #

10189

for JTKnight, Jr

Heather Knaster 6-26-96
Analyst Signature Date

Analyst Signature Date

Validated by: H Knaster 6-27-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

- 1 Blank 5ml QH₂O PDD to 25ml then 5ml used .003
- 2 Standard; 250ml of B3N8D to 25ml then 500ml used .163
PDD to 25ml then 5ml used
- 3 S96T002332; .25164g .070^m
PDD to 25ml then 2ml used
- 4 S96T002332 Duplicate; .28293g 2ml of PDD used .078^m
- 5 S96T002332 Spike; .26932g 2ml of PDD used .358
Spike; 250ml of 100% B3N8D
- 6 S96T002335; .27184g 2ml of PDD used .092^{20.7}
- 7 S96T002335 Duplicate; .21124g 2ml of PDD used .082^{25.5}
- 8 S96T001453; .16938g 2ml of PDD .143
- 9 S96T001453 Duplicate; .23557g 2ml of PDD .202
- 10 S96T001454; .18759g 2ml of PDD .331
- 11 S96T001454 Duplicate; .23781 2ml of PDD .354
- 12 Continuing Calibration Standard; .500ml of Std. 1 5ml of PDD used .169
- 13 Continuing Calibration Blank; 5ml QH₂O 5ml of PDD used .006

500mL 0.063 A
500mL 0.153 A
500mL 0.878 A
500mL 0.878 A
500mL 0.338 A

500mL 0.092 A
500mL 0.062 A
500mL 0.143 A
500mL 0.262 A
500mL 0.331 A
500mL 0.334 A
500mL 0.163 A
500mL 0.066 A

Cyanide Calculations WHC-SD-WM-DP-189, REV. 1

$$\textcircled{1} \frac{(\text{Absorbance} - \text{Absorbance of blank}) - \text{y-Intercept}}{\text{Slope}} \times \text{PDDF} = \mu\text{g CN}$$

where y-Intercept + Slope are from calibration
and

PDDF = Post-distillation dilution factor

$$\textcircled{2} \frac{\mu\text{g CN}}{\text{Sample Size (mL)}} \times \frac{5\text{ mL Final Volume}}{\text{Original Sample Size (g)}} = \text{Conc CN in } \mu\text{g/g}$$

where $\mu\text{g CN}$ is from #1

Sample Size in mL is amt of dissolution
that was distilled

and Sample size in g is the amt of sample
dissolved.

For LA-695-103 (as of 6/18/96)

$$\text{y-Int} = -0.0184$$

$$\text{Slope} = \frac{0.1478}{7.89} = 0.147587$$

For LA-695-102 (as of 5/16/96)

$$\text{y-Int} = 0.009796$$

$$\text{Slope} = 0.1160398$$

WL#10189U-102 / U-105 CN

p.1

Calculations

WHC-SD-WM-DP-189, REV. 1

1. Blank

$$0.003 < MDL$$

$$DF = 5$$

$$\text{Result} = < 0.055 \mu\text{g/mL}$$

2. STD

$$\frac{(0.163 - 0.003) - 0.009796}{0.160398} \times 5 = 4.68 \mu\text{g}$$

$$\frac{972 \mu\text{g}}{\text{mL} / 100} \times 0.5 \text{ mL} = 4.86 \mu\text{g}$$

$$\frac{4.68}{4.86} \times 100 = 96.3\% \quad 936.0 \text{ mg/mL}$$

3. S96T002332

$$\frac{(0.070 - 0.003) - 0.009796}{0.160398} \times 12.5 = \frac{4.46 \mu\text{g}}{0.25164 \text{ g}} = 17.7 \frac{\mu\text{g}}{\text{g}}$$

$$DL = 2.74$$

4. Dup

As above

$$\text{Abs} = 0.078$$

$$\text{SS} = 0.28293 \text{ g}$$

$$DF = 12.5$$

$$= \frac{5.08 \mu\text{g}}{0.28293 \text{ g}} = 17.96 \frac{\mu\text{g}}{\text{g}}$$

$$DL = 2.43$$

5. Spk

$$\frac{(0.358 - 0.003) - 0.009796}{0.160398} \times 12.5 = 26.9 \mu\text{g}$$

$$\frac{4.46 \mu\text{g}}{0.25164 \text{ g}} = \frac{x}{0.26932 \text{ g}}$$

$$x = 4.77 \mu\text{g} \text{ Corrected Sample Value}$$

$$\text{True Spk Value: } \frac{972 \mu\text{g}}{\text{mL} / 10} \times 0.25 \text{ mL} = 24.3 \mu\text{g}$$

~~26.9~~

$$26.9 \mu\text{g} - 4.77 \mu\text{g} = \frac{22.13}{24.3} \times 100 = 91.1\%$$

Calculations

p.2

WHC-SD-WM-DP-189, REV. 1

6. S96T002335

$$\frac{(0.092 - 0.003) - 0.009796}{0.160398} \times 12.5 = \frac{6.17 \mu\text{g}}{0.2718 \text{g}} = \frac{22.7 \mu\text{g}}{\text{g}}$$

DL = 2.53

7. Dup

As above Abs = 0.082
 SS = 0.21124g
 DF = 12.5

$$= \frac{5.39 \mu\text{g}}{0.21124 \text{g}} = \frac{25.5 \mu\text{g}}{\text{g}}$$

DL = 3.25

8. S96T001453

As above Abs = 0.143
 SS = 0.16938g
 DF = 12.5

$$= \frac{10.15 \mu\text{g}}{0.16938 \text{g}} = 59.9 \mu\text{g/g}$$

DL = 4.06

9. Dup

As above Abs = 0.202
 SS = 0.23557g
 DF = 12.5

$$= \frac{14.74 \mu\text{g}}{0.23557 \text{g}} = 62.6 \mu\text{g/g}$$

DL = 2.91

10. S96T001454

As above Abs = 0.331
 SS = 0.18759g
 DF = 12.5

$$= \frac{24.80 \mu\text{g}}{0.18759 \text{g}} = 132.2 \frac{\mu\text{g}}{\text{g}}$$

DL = 3.6

11. Dup

As above Abs = 0.354
 SS = 0.23781g
 DF = 12.5

$$= \frac{26.59 \mu\text{g}}{0.23781 \text{g}} = 111.8 \frac{\mu\text{g}}{\text{g}}$$

DL = 2.89

Calculations

WHC-SD-WM-DP-189, REV. 1

12. CCV

Same as # 2 Abs = 0.169 = 4.87 μ g
DF = 5

$$\frac{4.87 \mu\text{g}}{4.86 \mu\text{g}} \times 100 = 100.2\% \quad 973.9 \mu\text{g/mL}$$

13. CCB

0.006 < MDL
DF = 5Result = < 0.055 μ g/mL

Kathy Anastor 6-26-96

LABCORE Data Entry Template for Worklist#

10292

Analyst: HK Instrument: CN01 Book # 83N80Method: LA-695-103 Rev/Mod A-Ø

Worklist Comment: U-102 CYANIDE. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	UNIT
		1 BLNK			CN-01	SOLID	<u>1</u>	<u>\$0.57</u>	ug/g
		2 STD			CN-01	SOLID	<u>970</u>	<u>926.4</u>	ug/g
96000536	U-102	3 SAMPLE	S96T002332	0	CN-01	SOLID	<u>N/A</u>	<u>20.4</u>	ug/g
96000536	U-102	4 DUP	S96T002332	0	CN-01	SOLID	<u>20.4</u>	<u>29.7</u>	ug/g
96000536	U-102	5 SPK	S96T002332	0	CN-01	SOLID	<u>100</u>	<u>111</u>	ug/g
96000536	U-102	6 SAMPLE	S96T002335	0	CN-01	SOLID	<u>N/A</u>	<u>35.6</u>	ug/g
96000536	U-102	7 DUP	S96T002335	0	CN-01	SOLID	<u>35.6</u>	<u>34.7</u>	ug/g
96000536	U-102	8 SPK	S96T002335	0	CN-01	SOLID	<u>100</u>	<u>101.6</u>	ug/g
		9 CCV			CN-01	SOLID	<u>970</u>	<u>945.2</u>	ug/g
		10 CCB			CN-01	SOLID	<u>1</u>	<u>40.028</u>	ug/g

Final page for worklist #

10292

Analyst Signature H Anastos Date 7-16-96

Analyst Signature _____ Date _____

Entered & Validated 7-16-96 Haa

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Cyanide Calculations

WHC-SD-WM-DP-189, REV. 1

$$\textcircled{1} \frac{(\text{Absorbance} - \text{Absorbance of blank}) - \text{y-Intercept}}{\text{Slope}} \times \text{PDDF} = \mu\text{g CN}$$

where y-Intercept + Slope are from calibration
and

PDDF = Post-distillation dilution factor

$$\textcircled{2} \frac{\mu\text{g CN}}{\text{Sample Size (mL)}} \times \frac{5 \text{ mL Final Volume}}{\text{Original Sample Size (g)}} = \text{Conc CN in } \mu\text{g/g}$$

where $\mu\text{g CN}$ is from #1

Sample Size in mL is amt of dissolution
that was distilled

and Sample size in g is the amt of sample
dissolved.

For LA-695-103 (as of 6/18/96)

$$\text{y-Int} = -0.0184$$

$$\text{Slope} = \frac{0.1478 \text{ } \cancel{\text{area}}}{0.147587} \quad 7.8.96$$

For LA-695-102 (as of 5/16/96)

$$\text{y-Int} = 0.009796$$

$$\text{Slope} = 0.160398$$

1. STD

$$\frac{(0.270 - 0.015) + 0.0184}{0.147587} \times 2.5 = 4.63 \mu\text{g CN}$$

$$\frac{4.63}{4.85} \times 100 = 95.5\%$$

$$\frac{928.3}{926.4} \times 100 = 100.2\%$$

2. Blnk 0.015 PDDF = 2.5 0.57 $\mu\text{g/mL}$

3. S96T002332

0.051 PDDF = 2.5

$$\frac{0.92 \mu\text{g}}{1 \text{ mL}} \times \frac{5 \text{ mL}}{0.22624 \text{ g}} = 20.4 \frac{\mu\text{g}}{\text{g}}$$

4. Dup

0.069 PDDF = 2.5

$$\frac{1.23 \mu\text{g}}{1 \text{ mL}} \times \frac{5 \text{ mL}}{0.20678 \text{ g}} = 29.7 \frac{\mu\text{g}}{\text{g}}$$

5. Spk 0.369 PDDF = 2.5

$$6.31 \mu\text{g} - 0.92 \mu\text{g} = 5.39 \mu\text{g}$$

$$\frac{5.39}{4.85} \times 100 = 111\% \text{ Recovery}$$

6. S96T002335

0.082 PDDF = 2.5

$$\frac{1.45 \mu\text{g}}{1 \text{ mL}} \times \frac{5 \text{ mL}}{0.20307 \text{ g}} = 35.62 \frac{\mu\text{g}}{\text{g}}$$

7. Dup

0.085 PDDF = 2.5

$$\frac{1.50 \mu\text{g}}{1 \text{ mL}} \times \frac{5 \text{ mL}}{0.21581 \text{ g}} = 34.7 \frac{\mu\text{g}}{\text{g}}$$

WL# 10292

WHC-SD-WM-DP-189, REV. 1

U-102 CWS

cont

8. Spk 0.373

$$6.38\mu\text{g} - 1.45\mu\text{g} = \frac{4.93\mu\text{g}}{4.85\mu\text{g}} \times 100 = 101.6\%$$

9. CCV

0.316

$$\frac{4.73\mu\text{g}}{4.85\mu\text{g}} \times 100 = 97.4\%$$

946.7 ~~100~~ 7.6.9%~~945.2~~ $\mu\text{g/mL}$

10. CCB

0.003 < MDL

Result = < 0.028 $\mu\text{g/mL}$

LABCORE Data Entry Template for Worklist#

9390

Analyst: AB Instrument: PH01 Book # 144 N/6-D
Method: LA-212-106 Rev/Mod A-0
Worklist Comment: U-102 PH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STDPH			PH-01	LIQUID		<u>7.97</u>	N/A	pH
96000536	U-102	2 SAMPLE	S96T002524 0		PH-01	LIQUID	N/A	<u>13.27</u>		pH

Final page for worklist # 9390

AB Sniffin 6-1-96
Analyst Signature Date

[Signature]
Analyst Signature Date

Validated by H. Anestis 6-3-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

10505

Analyst: KGH Instrument: PH01 Book # 44N/16-D

Method: LA-212-106 Rev/Mod _____

Worklist Comment: U-102 PH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STDPH			PH-01	LIQUID	<u>7.29</u>	<u>8.00</u>	<u>8.28</u>	N/A pH
96000569	U-102	2 SAMPLE	S96T003622	0	PH-01	LIQUID	N/A	<u>13.01</u>	<u>0.01</u>	pH
96000569	U-102	3 DUP	S96T003622	0	PH-01	LIQUID	<u>13.01</u>	<u>13.09</u>	N/A	pH

Final page for worklist # 10505

Analyst Signature

Date

Analyst Signature

Date

Approved RW Schneider
7/3/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

05/15/96 13:43

A-0004-1

WHC-SD-WM-DP-189, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 8723

Analyst: ELL Instrument: IC00 Book# 136N9-DMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: U-108 & U-102 FOR BR RTS!

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	CCB		@IC-QC	QC		
2	CCV		@IC-QC	QC		
3	SAMPLE S96T002507 0		@IC-01	LIQUID	96000577	U-108
	Analytes Requested: BR-02					
4	DUP S96T002507 0		@IC-01	LIQUID		
5	SPK S96T002507 0		@IC-01	LIQUID		
6	SAMPLE S96T002511 0		@IC-01	LIQUID	96000569	U-102
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
7	DUP S96T002511 0		@IC-01	LIQUID		

Final page for worklist # 8723

A. Lambert 06-13-96
 Analyst Signature Date

 Analyst Signature Date

In shell 6/13/96

Up/loaded 6/13/96 Jm Lye

2507 \$ 8/1/96
 Br for S96T002705 rejected + out for re-run. Rest
 Validated. 6/13/96 Jm Lye ON WKL 9951

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 8723

Analyst: eal

Instrument: IC01

Book# 136N9D

Method: LA533IDS Rev/Mod D-1

Worklist Comment: U-108 & U-102 FOR BR RTS!

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	IC-QC F	QC	1	<1.30e-2		mL
1 CCB	0	IC-QC CL	QC	1	<1.70e-2		mL
1 CCB	0	IC-QC NO2	QC	1	<1.07e-1		mL
1 CCB	0	IC-QC BR	QC	1	<1.26e-1		mL
1 CCB	0	IC-QC NO3	QC	1	3.60e-01	0.360	mL
1 CCB	0	IC-QC PO4	QC	1	<1.19e-1		mL
1 CCB	0	IC-QC SO4	QC	1	<1.36e-1		mL
1 CCB	0	IC-QC OXALATE2	QC	1	<1.05e-1		mL
2 CCV	0	IC-QC F	QC	5.90e01	5.73e+01	97.119	recovery
2 CCV	0	IC-QC CL	QC	7.90e01	7.37e+01	93.291	recovery
2 CCV	0	IC-QC NO2	QC	5.37e02	5.04e+02	93.855	recovery
2 CCV	0	IC-QC BR	QC	5.75e02	5.68e+02	98.762	recovery
2 CCV	0	IC-QC NO3	QC	6.14e02	5.94e+02	96.743	recovery
2 CCV	0	IC-QC PO4	QC	5.46e02	5.36e+02	98.168	recovery
2 CCV	0	IC-QC SO4	QC	6.31e02	6.32e+02	100.158	recovery
2 CCV	0	IC-QC OXALATE2	QC	5.04e02	5.22e+02	103.571	recovery
4 DUP	S96T002507 0	IC-01 BR-02	LIQUID	6.22e+04	3.55e+04	54.657	mL
5 SPK	S96T002507 0	IC-01 BR-02	LIQUID	5.75e02	-8.16e-2	-141.919	recovery
6 SAMPLE	S96T002511 0	IC-01 F-02	LIQUID	N/A	< 2.757e+01	27.570	mL
6 SAMPLE	S96T002511 0	IC-01 CL-02	LIQUID	N/A	< 3.981e+01	36.068	mL
6 SAMPLE	S96T002511 0	IC-01 NO2-02	LIQUID	N/A	< 2.269e+02	226.900	mL
6 SAMPLE	S96T002511 0	IC-01 BR-02	LIQUID	N/A	< 2.938e+04	267.200	mL
6 SAMPLE	S96T002511 0	IC-01 NO3-02	LIQUID	N/A	< 2.969e+02	296.900	mL
6 SAMPLE	S96T002511 0	IC-01 PO4-02	LIQUID	N/A	< 2.522e+02	252.200	mL
6 SAMPLE	S96T002511 0	IC-01 SO4-02	LIQUID	N/A	< 2.882e+02	288.200	mL
6 SAMPLE	S96T002511 0	IC-01 OXALATE2	LIQUID	N/A	< 2.374e+02	232.700	mL
7 DUP	S96T002511 0	IC-01 F-02	LIQUID	<2.76e1	<2.76e1		mL
7 DUP	S96T002511 0	IC-01 CL-02	LIQUID	3.98e+01	4.85e+01	19.700	mL
7 DUP	S96T002511 0	IC-01 NO2-02	LIQUID	<2.27e2	<2.27e2		mL
7 DUP	S96T002511 0	IC-01 BR-02	LIQUID	2.94e+04	2.98e+04	1.35	mL
7 DUP	S96T002511 0	IC-01 NO3-02	LIQUID	<2.97e2	<2.97e2		mL
7 DUP	S96T002511 0	IC-01 PO4-02	LIQUID	<2.52e2	<2.52e2		mL
7 DUP	S96T002511 0	IC-01 SO4-02	LIQUID	<2.88e2	<2.88e2		mL
7 DUP	S96T002511 0	IC-01 OXALATE2	LIQUID	2.37e+02	<2.23e2		mL

Final page for worklist# 8723

Anast 6-16-96
Analyst Signature Date

Analyst Signature Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Jun-96			
Worklist#: 8723				Data File: 8723JUN.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name	Dilution		
-	=>	1	CCB	S96T002507 S96T002507 S96T002507 S96T002511 S96T002511	-	1	96061231.d11	INST. BLANK	1.00		
	=>	2	CCV		2	96061231.d12	136N9-D STD.	101.00			
	=>	3	SAMPLE			96061231.d14	S96T002507	101.00			
	=>	4	DUP		3	96061231.d15	S96T002507	2121.00			
	=>	5	SPK		4	96061241.d03	S96T002507 DUP	2121.00			
	=>	6	SAMPLE		5	96061241.d04	S96T002507 SPIKE	2121.00			
	=>	7	DUP		6	96061241.d05	S96T002511	2121.00			
					7	96061301.d06	S96T002511 DUP	2121.00			
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

WMO-SD-WM-DF-189, REV. 1

=====

Sample Name: INST. BLANK	Date: 06/12/1996 22:35:07
Data File : C:\DX\DATA\96061231.D11	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-189, REV. /
ACI Address: 1 System: 1 Inject#: 11	Detector: CDM-1
Analyst : <i>A. Lambel</i>	Column: AG4A/AS4A anion column

=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration $\mu\text{g/ml}$	Height	Area	Bl. Code	%Delta
1	0.91		0.000	18	111	1	
2	1.24		0.000	20	146	1	
3	1.49		0.000	21	129	1	
4	1.66	chloride	0.015	37	199	1	0.40
5	3.38	nitrate	0.360	228	1914	1	2.01
Totals			0.375	324	2500		

File: 96061231.D11 Sample: INST. BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 321 TO 324.

WHC-SD-WM-DP-189, REV. 1

Sample Name: 136N9-D STD. Date: 06/12/1996 22:46:27
 Data File : C:\EX\DATA\96061231.D12
 Method : C:\EX\METHOD\KIT.MET WHC-SD-WM-DP-189, REV. 1
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : *A. Lambert* Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	69	322	2	
2	1.11	fluoride	57.315	1556	10248	2	3.75
3	1.65	chloride	73.682	1747	9822	1	-0.40
4	1.95	nitrite	504.361	6876	46792	1	-2.98
5	2.92	bromide	568.130	4977	35451	1	-1.35
6	3.32	nitrate	594.282	5984	48599	1	0.20
7	4.75	phosphate	535.896	1475	21857	1	-3.78
8	6.19	sulfate	632.215	4612	67633	1	-4.92
9	8.11	oxalate	522.469	2187	43737	1	-5.00
Totals			3488.352	29483	284459		

File: 96061231.D12 Sample: 136N9-D STD.

WHC-SD-WM-DP-189, REV. 1

```

=====
Sample Name: S96T002511      Date: 06/13/1996 00:22:45
Data File  : C:\DX\DATA\96061241.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst    :                  Column: AG4A/AS4A anion column
Detector: CDM-1
=====
  
```

```

=====
Calibration Volume  Dilution Points Rate Start Stop Area Reject
-----
External           1           2121 3000 5Hz 0.00 10.00      100
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	38	273	1	
2	1.67	chloride	39.810	46	248	1	1.21
3	2.89	bromide	29380.352	12967	90809	1	-2.25
4	6.29	sulfate	199.966	20	350	1	-3.28
5	7.73	oxalate	237.382	22	500	1	-9.38
Totals			29857.510	13094	92180		

File: 96061241.D05 Sample: S96T002511

WHC-SD-WM-DP-189, REV. 1

```

=====
Sample Name: S96T002511 DUP                      Date: 06/13/1996 00:34:28
Data File  : C:\EX\DATA\96061301.D06
Method     : C:\EX\METHOD\KIT.MET                WHC-SD-WM-DP-189, REV.1
ACI Address: 1 System: 1 Inject#: 6                Detector: CDM-1
Analyst    :                                     Column: AG4A/AS4A anion column
=====
  
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		10.000	32	193	1	
2	1.67	chloride	48.532	56	302	1	0.81
3	2.89	bromide	29807.359	13011	92208	1	-2.25
Totals			29855.891	13099	92703		

File: 96061301.D06 Sample: S96T002511 DUP

WHC-SD-WM-DP-189, REV. 1

07/02/96 14:38
A-0004-1

Page: 1

LABCORE Data Entry Template for Worklist# 9521

Analyst: DPB Instrument: IC00 IC03 Book# 140N9-AMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. jmf

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T002762 0		@IC-01	LIQUID	96000569	U-102
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
4 DUP	S96T002762 0		@IC-01	LIQUID		
5 SAMPLE	S96T002549 0		@IC-01	LIQUID	96000569	U-102
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
6 DUP	S96T002549 0		@IC-01	LIQUID		
7 SAMPLE	S96T002323 0		@IC-01	LIQUID	96000536	U-102
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S96T002323 0		@IC-01	LIQUID		
9 SPK	S96T002323 0		@IC-01	LIQUID		

Final page for worklist # 9521

Analyst Signature Daniel J. Brandy Date 7/3/96

Analyst Signature _____ Date _____

Exported 9521.sp.csv

Inshell

Uploaded 7/3/96 JMD

Validated 7/3/96 JMD

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

325

LABCORE Completed Worklist Report for Worklist# 9521

Analyst: dpb

Instrument: IC03

Book# 140 N9A
136 N9A 7/17/96

Method: 44-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. jmf

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	@IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	@IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	@IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	@IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	@IC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB	0	@IC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB	0	@IC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB	0	@IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	@IC-QC F	QC	5.900e1	6.53e+01	110.678 % Recovery	
2	CCV	0	@IC-QC CL	QC	7.900e1	8.44e+01	106.835 % Recovery	
2	CCV	0	@IC-QC NO2	QC	5.430e2	5.52e+02	101.657 % Recovery	
2	CCV	0	@IC-QC BR	QC	5.750e2	5.88e+02	102.261 % Recovery	
2	CCV	0	@IC-QC NO3	QC	6.150e2	6.43e+02	104.553 % Recovery	
2	CCV	0	@IC-QC PO4	QC	5.460e2	5.62e+02	102.930 % Recovery	
2	CCV	0	@IC-QC SO4	QC	6.310e2	6.61e+02	104.754 % Recovery	
2	CCV	0	@IC-QC OXALATE2	QC	5.070e2	5.37e+02	105.917 % Recovery	
3	SAMPLE	S96T002762	@IC-01 F-02	LIQUID	N/A	< 7.800e-02	7.80e-002	ug/mL
3	SAMPLE	S96T002762	@IC-01 CL-02	LIQUID	N/A	6.940e-01	0.102	ug/mL
3	SAMPLE	S96T002762	@IC-01 NO2-02	LIQUID	N/A	2.565e+00	0.642	ug/mL
3	SAMPLE	S96T002762	@IC-01 BR-02	LIQUID	N/A	7.560e-01	0.756	ug/mL
3	SAMPLE	S96T002762	@IC-01 NO3-02	LIQUID	N/A	7.407e+00	0.840	ug/mL
3	SAMPLE	S96T002762	@IC-01 PO4-02	LIQUID	N/A	7.134e-01	0.713	ug/mL
3	SAMPLE	S96T002762	@IC-01 SO4-02	LIQUID	N/A	1.627e+00	0.815	ug/mL
3	SAMPLE	S96T002762	@IC-01 OXALATE2	LIQUID	N/A	6.300e-01	0.630	ug/mL
4	DUP	S96T002762	@IC-01 F-02	LIQUID	<7.80e-2	<7.80e-2		RPD
4	DUP	S96T002762	@IC-01 CL-02	LIQUID	6.94e-01	7.55e-01	8.420	RPD
4	DUP	S96T002762	@IC-01 NO2-02	LIQUID	2.56e+00	2.60e+00	1.550	RPD
4	DUP	S96T002762	@IC-01 BR-02	LIQUID	<7.56e-1	<7.56e-1		RPD
4	DUP	S96T002762	@IC-01 NO3-02	LIQUID	7.41e+00	6.99e+00	5.833	RPD
4	DUP	S96T002762	@IC-01 PO4-02	LIQUID	<7.13e-1	<7.13e-1		RPD
4	DUP	S96T002762	@IC-01 SO4-02	LIQUID	1.63e+00	1.55e+00	5.031	RPD
4	DUP	S96T002762	@IC-01 OXALATE2	LIQUID	<6.30e-1	<6.30e-1		RPD
5	SAMPLE	S96T002549	@IC-01 F-02	LIQUID	N/A	< 1.326e+02	132.600	ug/mL
5	SAMPLE	S96T002549	@IC-01 CL-02	LIQUID	N/A	8.844e+03	173.400	ug/mL
5	SAMPLE	S96T002549	@IC-01 NO2-02	LIQUID	N/A	1.052e+05	1092.000	ug/mL
5	SAMPLE	S96T002549	@IC-01 BR-02	LIQUID	N/A	1.285e+03	1285.000	ug/mL
5	SAMPLE	S96T002549	@IC-01 NO3-02	LIQUID	N/A	2.517e+05	1428.000	ug/mL
5	SAMPLE	S96T002549	@IC-01 PO4-02	LIQUID	N/A	3.616e+03	1213.000	ug/mL
5	SAMPLE	S96T002549	@IC-01 SO4-02	LIQUID	N/A	6.703e+03	1386.000	ug/mL
5	SAMPLE	S96T002549	@IC-01 OXALATE2	LIQUID	N/A	1.071e+03	1071.000	ug/mL
6	DUP	S96T002549	@IC-01 F-02	LIQUID	<1.33e2	<1.33e2		RPD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9521

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 DUP	S96T002549 0	QIC-01 CL-02	LIQUID	8.84e+03	8.91e+03	0.789	RPD
6 DUP	S96T002549 0	QIC-01 NO2-02	LIQUID	1.05e+05	1.05e+05	0.000	RPD
6 DUP	S96T002549 0	QIC-01 BR-02	LIQUID	<1.28e3	<1.29e3		RPD
6 DUP	S96T002549 0	QIC-01 NO3-02	LIQUID	2.52e+05	2.48e+05	1.600	RPD
6 DUP	S96T002549 0	QIC-01 PO4-02	LIQUID	3.62e+03	4.08e+03	11.948	RPD
6 DUP	S96T002549 0	QIC-01 SO4-02	LIQUID	6.70e+03	6.61e+03	1.352	RPD
6 DUP	S96T002549 0	QIC-01 OXALATE2	LIQUID	<1.07e3	<1.07e3		RPD
7 SAMPLE	S96T002323 0	QIC-01 F-02	LIQUID	N/A	< 1.326e+02	132.600	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 CL-02	LIQUID	N/A	8.822e+03	173.400	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 NO2-02	LIQUID	N/A	1.061e+05	1092.000	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 BR-02	LIQUID	N/A	< 1.285e+03	1285.000	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 NO3-02	LIQUID	N/A	2.403e+05	1428.000	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 PO4-02	LIQUID	N/A	3.755e+03	1213.000	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 SO4-02	LIQUID	N/A	7.447e+03	1386.000	ug/mL
7 SAMPLE	S96T002323 0	QIC-01 OXALATE2	LIQUID	N/A	< 1.071e+03	1071.000	ug/mL
8 DUP	S96T002323 0	QIC-01 F-02	LIQUID	<1.33e2	<1.33e2		RPD
8 DUP	S96T002323 0	QIC-01 CL-02	LIQUID	8.82e+03	8.69e+03	1.485	RPD
8 DUP	S96T002323 0	QIC-01 NO2-02	LIQUID	1.06e+05	1.02e+05	3.846	RPD
8 DUP	S96T002323 0	QIC-01 BR-02	LIQUID	<1.28e3	<1.29e3		RPD
8 DUP	S96T002323 0	QIC-01 NO3-02	LIQUID	2.40e+05	2.38e+05	0.837	RPD
8 DUP	S96T002323 0	QIC-01 PO4-02	LIQUID	3.76e+03	3.76e+03	0.000	RPD
8 DUP	S96T002323 0	QIC-01 SO4-02	LIQUID	7.45e+03	7.46e+03	0.134	RPD
8 DUP	S96T002323 0	QIC-01 OXALATE2	LIQUID	<1.07e3	<1.07e3		RPD
9 SPK	S96T002323 0	QIC-01 F-02	LIQUID	5.900e1	9.37e+01	158.814	% Recovery
9 SPK	S96T002323 0	QIC-01 CL-02	LIQUID	7.900e1	8.15e+01	103.165	% Recovery
9 SPK	S96T002323 0	QIC-01 NO2-02	LIQUID	5.430e2	5.83e+02	107.366	% Recovery
9 SPK	S96T002323 0	QIC-01 BR-02	LIQUID	5.750e2	5.93e+02	103.130	% Recovery
9 SPK	S96T002323 0	QIC-01 NO3-02	LIQUID	6.150e2	7.00e+02	113.821	% Recovery
9 SPK	S96T002323 0	QIC-01 PO4-02	LIQUID	5.460e2	5.71e+02	104.579	% Recovery
9 SPK	S96T002323 0	QIC-01 SO4-02	LIQUID	6.310e2	6.63e+02	105.071	% Recovery
9 SPK	S96T002323 0	QIC-01 OXALATE2	LIQUID	5.070e2	5.48e+02	108.087	% Recovery

Final page for worklist# 9521

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John Lye
Reviewer Signature Date 7/17/96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				03-Jul-96			
Worklist#: 9521				Data File: 9521JY.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name	Dilution		
-	=>	1	CCB		-	1	96070271.d06	ELUENT BLANK	1.00		
	=>	2	CCV			2	96070271.d07	STD 140N9-A	101.00		
	=>	3	SAMPLE	S96T002762		3	96070271.d08	S96T002762 SAM	6.00		
	=>	4	DUP	S96T002762		4	96070271.d09	S96T002762 DUP	6.00		
	=>	5	SAMPLE	S96T002549		5	96070271.d10	S96T002549 SAM	10201.00		
	=>	6	DUP	S96T002549		6	96070271.d11	S96T002549 DUP	10201.00		
	=>	7	SAMPLE	S96T002323		7	96070271.d12	S96T002323 SAM	10201.00		
	=>	8	DUP	S96T002323		8	96070271.d13	S96T002323 DUP	10201.00		
	=>	9	SPK	S96T002323		9	96070271.d14	S96T002323 SPK	10201.00		
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Sample Name: BLUENT BLANK Date: 07/02/1996 22:22:26
 Data File : C:\DX\DATA\96070271.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 6 Detector: CDM-1
 Analyst *Janey for APB 3/17/97*

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	200	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	3.15		0.000	44	311	1	
Totals			0.000	44	311		

File: 96070271.D06 Sample: ELUENT BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 329 TO 337.

Sample Name: STD 140N9-A		Date: 07/02/1996 22:38:27
Data File : C:\DX\DATA\96070271.D07		
Method : C:\DX\METHOD\ANIONS.MET		
ACI Address: 1	System: 2	Inject#: 7
Analyst :	Column:	Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	200	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	62	243	2	
2	1.04	FLUORIDE	65.278	1750	8915	2	0.32
3	1.54	CHLORIDE	84.432	1593	8101	1	-0.43
4	1.84	NITRITE	552.326	7051	38965	1	-0.36
5	2.73	BROMIDE	588.488	4414	27107	2	1.87
6	3.10	NITRATE	642.791	5176	38255	2	3.79
7	4.60	PHOSPHATE	561.565	1438	15991	1	2.75
8	6.06	SULFATE	661.444	3913	50235	1	2.83
9	7.94	OXALATE	536.695	1865	31596	1	3.43
Totals			3693.019	27263	219410		

File: 96070271.D07 Sample: STD 140N9-A

Sample Name: S96T002762 SAM Date: 07/02/1996 23:11:29
 Data File : C:\DX\DATA\96070271.D08
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 8 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 6 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.55	CHLORIDE	10.694	230	1105	2	0.00
3	1.84	NITRITE	2.565	559	3002	1	-0.36
4	3.14	NITRATE	7.407	1030	7300	1	4.91
5	6.10	SULFATE	1.627	163	2040	1	3.51
Totals			12.293	1983	13447		

File: 96070271.D08 Sample: S96T002762 SAM

Sample Name: S96T002762 DUP Date: 07/02/1996 23:27:09
 Data File : C:\DX\DATA\96070271.D09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	6	3000	5Hz	0.00	10.00	200	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.55	CHLORIDE	0.755	247	1202	2	0.00
3	1.84	NITRITE	2.599	551	3042	1	-0.36
4	3.14	NITRATE	6.992	989	6890	1	4.91
5	6.09	SULFATE	1.547	163	1939	1	3.40
Totals			11.893	1950	13072		

File: 96070271.D09 Sample: S96T002762 DUP

Sample Name: S96T002549 SAM Date: 07/02/1996 23:46:52
 Data File : C:\DX\DATA\96070271.D10
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 10 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 10201 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		10.000	177	976	2	
2	1.15		10.000	727	6466	2	
3	1.54	CHLORIDE	8843.775	1647	8406	1	-0.43
4	1.84	NITRITE	105242.256	13448	74602	1	-0.36
5	3.05	NITRATE	251724.589	20133	158476	1	2.01
6	4.62	PHOSPHATE	3616.438	103	1000	1	3.05
7	6.08	SULFATE	6702.553	381	4949	1	3.28
Totals			376129.612	36615	254875		

File: 96070271.D10 Sample: S96T002549 SAM

Sample Name: S96T002549 DUP Date: 07/03/1996 00:01:53
 Data File : C:\DX\DATA\96070271.D11
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 11 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 10201 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		10.000	164	870	2	
2	1.15		0.000	733	6581	2	
3	1.54	CHLORIDE	8913.216	1674	8473	1	-0.43
4	1.84	NITRITE	105288.047	13499	74635	1	-0.36
5	3.05	NITRATE	248219.657	20130	156055	1	2.01
6	4.62	PHOSPHATE	4083.005	105	1129	1	3.05
7	6.07	SULFATE	6607.387	387	4878	1	3.06
Totals			373111.313	36691	252622		

File: 96070271.D11 Sample: S96T002549 DUP

Sample Name: S96T002323 SAM Date: 07/03/1996 01:36:08
 Data File : C:\DX\DATA\96070271.D12
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 12 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	10201	3000	5Hz	0.00	10.00	200	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		100.000	172	971	2	
2	1.15		0.000	710	6288	2	
3	1.55	CHLORIDE	88213657	1621	8385	1	0.00
4	1.85	NITRITE	106083.497	13264	75217	1	0.00
5	3.06	NITRATE	240310567	19378	150617	1	2.45
6	4.62	PHOSPHATE	3755.124	105	1038	1	3.05
7	6.08	SULFATE	7447202	421	5500	1	3.17
Totals			366418048	35670	248016		

File: 96070271.D12 Sample: S96T002323 SAM

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Sample Name: S96T002323 DUP                      Date: 07/03/1996 01:50:39
Data File  : C:\DX\DATA\96070271.D13
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 13
Analyst    :                               Column:
Detector: CDM-1
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
External          1      10201    3000 5Hz   0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	161	864	2	
2	1.15		0.000	702	6194	2	
3	1.55	CHLORIDE	8689.114	1639	8257	1	0.00
4	1.85	NITRITE	101540.492	13134	71897	1	0.00
5	3.06	NITRATE	238417.254	19220	149321	1	2.23
6	4.62	PHOSPHATE	3758.736	102	1039	1	3.05
7	6.07	SULFATE	7455.850	424	5506	1	3.06
Totals			359861.446	35382	243077		

File: 96070271.D13 Sample: S96T002323 DUP

Sample Name: S96T002323 SPK Date: 07/03/1996 02:17:48
 Data File : C:\DX\DATA\96070271.D14
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 14 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	10201	3000	5Hz	0.00	10.00	200	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration $\mu\text{g/ml}$	Height	Area	Bl. Code	%Delta
1	0.89		40.000	180	737	2	
2	1.04	FLUORIDE	9460.431	1789	12872	2	0.32
3	1.55	CHLORIDE	17058.246	3250	16494	2	0.00
4	1.85	NITRITE	165002.549	21458	119175	2	0.00
5	2.73	BROMIDE	59866.198	4597	27307	2	1.87
6	3.04	NITRATE	310977.934	25007	200586	2	1.78
7	4.60	PHOSPHATE	61435.052	1563	17352	1	2.60
8	6.04	SULFATE	74456.880	4397	56123	1	2.60
9	7.93	OXALATE	55380.010	1884	32289	1	3.26
Totals			753637.299	64125	482936		

File: 96070271.D14 Sample: S96T002323 SPK

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LABCORE Completed Worklist Report for Worklist# 9764

Analyst: jlf

Instrument: IC01

Book# 13449D

Method: 14-533-105-Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	•IC-QC F	QC	1	<1.30e-2	ug/mL
1	CCB	0	•IC-QC CL	QC	1	<1.70e-2	ug/mL
1	CCB	0	•IC-QC NO2	QC	1	<1.07e-1	ug/mL
1	CCB	0	•IC-QC BR	QC	1	<1.26e-1	ug/mL
1	CCB	0	•IC-QC NO3	QC	1	1.59e-01	0.159 ug/mL
1	CCB	0	•IC-QC P04	QC	1	<1.19e-1	ug/mL
1	CCB	0	•IC-QC S04	QC	1	<1.36e-1	ug/mL
1	CCB	0	•IC-QC OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV	0	•IC-QC F	QC	5.90e01	6.03e+01	102.203 % Recovery
2	CCV	0	•IC-QC CL	QC	7.90e01	7.25e+01	91.772 % Recovery
2	CCV	0	•IC-QC NO2	QC	5.37e02	4.97e+02	92.551 % Recovery
2	CCV	0	•IC-QC BR	QC	5.75e02	5.64e+02	98.087 % Recovery
2	CCV	0	•IC-QC NO3	QC	6.14e02	5.96e+02	97.068 % Recovery
2	CCV	0	•IC-QC P04	QC	5.46e02	5.25e+02	96.154 % Recovery
2	CCV	0	•IC-QC S04	QC	6.31e02	6.24e+02	98.891 % Recovery
2	CCV	0	•IC-QC OXALATE2	QC	5.04e02	5.19e+02	102.976 % Recovery
3	BLNK-PREP	0	•IC-01 F-02	SOLID	1	<1.30e-2	ug/g
3	BLNK-PREP	0	•IC-01 CL-02	SOLID	1	<1.70e-2	ug/g
3	BLNK-PREP	0	•IC-01 NO2-02	SOLID	1	<1.07e-1	ug/g
3	BLNK-PREP	0	•IC-01 BR-02	SOLID	1	<1.26e-1	ug/g
3	BLNK-PREP	0	•IC-01 NO3-02	SOLID	1	<1.40e-1	ug/g
3	BLNK-PREP	0	•IC-01 P04-02	SOLID	1	<1.19e-1	ug/g
3	BLNK-PREP	0	•IC-01 S04-02	SOLID	1	<1.36e-1	ug/g
3	BLNK-PREP	0	•IC-01 OXALATE2	SOLID	1	<1.05e-1	ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 F-02	SOLID	N/A < 1.483e+02	148.300 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 CL-02	SOLID	N/A 5.072e+03	194.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 NO2-02	SOLID	N/A 5.611e+04	1221.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 BR-02	SOLID	N/A < 1.438e+03	1438.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 NO3-02	SOLID	N/A 2.572e+05	1596.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 P04-02	SOLID	N/A 4.030e+03	1357.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 S04-02	SOLID	N/A 2.017e+04	1550.000 ug/g
4	SAMPLE	S96T002759	0 W	•IC-01 OXALATE2	SOLID	N/A 6.588e+03	1198.000 ug/g
5	DUP	S96T002759	0 W	•IC-01 F-02	SOLID	<1.48e2	<1.27e2 RPD
5	DUP	S96T002759	0 W	•IC-01 CL-02	SOLID	5.07e+03	4.81e+03 5.263 RPD
5	DUP	S96T002759	0 W	•IC-01 NO2-02	SOLID	5.61e+04	5.37e+04 4.372 RPD
5	DUP	S96T002759	0 W	•IC-01 BR-02	SOLID	<1.44e3	<1.23e3 RPD
5	DUP	S96T002759	0 W	•IC-01 NO3-02	SOLID	2.57e+05	2.71e+05 5.303 RPD
5	DUP	S96T002759	0 W	•IC-01 P04-02	SOLID	4.03e+03	3.29e+03 20.219 RPD
5	DUP	S96T002759	0 W	•IC-01 S04-02	SOLID	2.02e+04	1.81e+04 10.966 RPD
5	DUP	S96T002759	0 W	•IC-01 OXALATE2	SOLID	6.59e+03	5.72e+03 14.135 RPD
6	SPK	S96T002759	0 W	•IC-01 F-02	SOLID	5.90e01	7.18e+01 121.695 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9764

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S96T002759	0	W	QIC-01	CL-02	SOLID	7.90e01	7.29e+01	92.278 % Recovery
6	SPK	S96T002759	0	W	QIC-01	NO2-02	SOLID	5.37e02	5.33e+02	99.255 % Recovery
6	SPK	S96T002759	0	W	QIC-01	BR-02	SOLID	5.75e02	5.39e+02	93.739 % Recovery
6	SPK	S96T002759	0	W	QIC-01	NO3-02	SOLID	6.14e02	5.95e+02	96.906 % Recovery
6	SPK	S96T002759	0	W	QIC-01	PO4-02	SOLID	5.46e02	5.10e+02	93.407 % Recovery
6	SPK	S96T002759	0	W	QIC-01	SO4-02	SOLID	6.31e02	6.10e+02	96.672 % Recovery
6	SPK	S96T002759	0	W	QIC-01	OXALATE2	SOLID	5.04e02	4.95e+02	98.214 % Recovery

Final page for worklist# 9764

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 6/17/96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				17-Jun-96	
Worklist#: 9764				Data File: 9764JUN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	1	960616:1.1.d11	BLANK	1.00		
	=>	2	CCV	2	960616:1.1.d13	136N9-D	101.00		
	=>	3	BLNK-PREP	3	960616:1.1.d14	BLANK PREP	1.00		
	=>	4	SAMPLE	4	960616:1.1.d16	S96T002759 SAM	51.00		
	=>	5	DUP	5	960616:1.1.d17	S96T002759 DUP	51.00		
	=>	6	SPK	6	960616:1.1.d18	S96T002759 SPIKE	51.00		
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Sample Name: 136N9-D	Date: 06/16/1996 23:29:30
Data File : C:\DX\DATA\96061611.D13	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 13	Detector: CDM-1
Analyst : <i>gsh</i>	Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	56	269	2	
2	1.09	fluoride	60.346	1675	10817	2	0.31
3	1.63	chloride	72.488	1776	9661	1	0.41
4	1.93	nitrite	497.409	7053	46127	1	0.69
5	2.87	bromide	563.728	5175	35166	1	1.65
6	3.26	nitrate	595.766	6170	48725	1	1.56
7	4.75	phosphate	525.127	1506	21407	1	-1.11
8	6.13	sulfate	624.256	3967	66757	1	-0.92
9	8.05	oxalate	519.316	2117	43468	1	-0.70
Totals			3458.436	29496	282397		

File: 96061611.D13 Sample: 136N9-D

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 342 TO 347.

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Sample Name: BLANK                      Date: 06/16/1996 23:00:42
Data File  : C:\DX\DATA\96061611.D11
Method     : C:\DX\METHOD\KIT.MBT
ACI Address: 1 System: 1 Inject#: 11      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====
  
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.33	nitrate	0.159	34	241	1	3.84
Totals			0.159	34	241		

File: 96061611.D11 Sample: BLANK

```

=====
Sample Name: BLANK PREP                      Date: 06/16/1996 23:43:00
Data File  : C:\DX\DATA\96061611.D14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0

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Sample Name: S96T002759 SAM	Date: 06/17/1996 00:11:21
Data File : C:\DX\DATA\96061611.D16	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 16	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	125	781	2	
2	1.21		0.000	375	3882	2	
3	1.64	chloride	22.672	1068	5954	1	1.23
4	1.94	nitrite	250.799	7004	46058	1	1.04
6	3.19	nitrate	1149.838	23191	198149	1	-0.52
7	4.77	phosphate	18.014	97	1318	1	-0.56
8	6.19	sulfate	90.156	1102	18365	1	-0.05
9	8.11	oxalate	29.449	209	4447	1	-0.04
Totals			1560.928	33170	278954		

File: 96061611.D16 Sample: S96T002759 SAM

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Sample Name: S96T002759 DUP Date: 06/17/1996 00:23:53
 Data File : C:\DX\DATA\96061611.D17
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 17 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3000	5Hz	0.00	10.00		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration $\mu\text{g/ml}$	Height	Area	Bl. Code	%Delta
1	0.92		0.000	173	1106	1	
2	1.21		0.000	440	4465	1	
3	1.63	chloride	25.218	1199	6629	1	0.82
4	1.93	nitrite	281.536	7806	51883	1	0.69
5	2.89	bromide	5.885	24	141	1	2.60
6	3.18	nitrate	1421.017	28117	249110	1	-0.93
7	4.77	phosphate	17.229	101	1255	1	-0.56
8	6.19	sulfate	94.811	1155	19353	1	-0.05
9	8.11	oxalate	29.937	213	4529	1	-0.04
Totals			1875.634	39229	338469		

File: 96061611.D17 Sample: S96T002759 DUP

```

=====
Sample Name: S96T002759 SPIKE          Date: 06/17/1996 00:36:57
Data File  : C:\DX\DATA\96061611.D18
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 18      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
External          1          51 3000 5Hz 0.00 10.00          100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	171	912	2	
2	1.11	fluoride	35.882	1667	12840	2	1.53
3	1.63	chloride	59.139	2910	15737	1	0.41
4	1.93	nitrite	517.239	14734	97079	1	0.69
5	2.86	bromide	269.450	5163	33222	1	1.42
6	3.17	nitrate	1447.449	28881	254173	1	-1.14
7	4.75	phosphate	273.161	1556	22069	1	-1.11
8	6.13	sulfate	394.969	5106	84228	1	-0.92
9	8.05	oxalate	277.115	2305	45983	1	-0.70
Totals			3274.403	62494	566241		

File: 96061611.D18 Sample: S96T002759 SPIKE

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06/10/96 10:08
A-0004-1

Page: 1

LABCORE Data Entry Template for Worklist# 9765

Analyst: RLM Instrument: IC00 IC03 Book# 14009AMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T002675 0 W		@IC-01	SOLID	96000536	U-102
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S96T002675 0 W		@IC-01	SOLID		
6 SPK	S96T002675 0 W		@IC-01	SOLID		
7 SAMPLE	S96T002676 0 W		@IC-01	SOLID	96000536	U-102
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S96T002676 0 W		@IC-01	SOLID		

Final page for worklist # 9765

RLM 7/8/96
 Analyst Signature Date

Analyst Signature Date

Exported 9765.jy.csv

Inshell 7/8/96 JMF

Reexported 9765 fx.csv 7/10/96 JMF

Inshell

Uploaded 7/14/96 JMF

Validated 7/16/96 JMF

Data Entry Comments:

96070711. D22 → D30

LABCORE Completed Worklist Report for Worklist# 9765

Analyst: pjm

Instrument: IC03

Book# 140294

Method: 14-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	②IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	②IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	②IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	②IC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB	0	②IC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB	0	②IC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB	0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	②IC-QC F	QC	5.900e1	6.18e+01	104.746 % Recovery	
2	CCV	0	②IC-QC CL	QC	7.900e1	8.02e+01	101.519 % Recovery	
2	CCV	0	②IC-QC NO2	QC	5.430e2	5.17e+02	95.212 % Recovery	
2	CCV	0	②IC-QC BR	QC	5.750e2	5.49e+02	95.478 % Recovery	
2	CCV	0	②IC-QC NO3	QC	6.150e2	6.05e+02	98.374 % Recovery	
2	CCV	0	②IC-QC PO4	QC	5.460e2	5.32e+02	97.436 % Recovery	
2	CCV	0	②IC-QC SO4	QC	6.310e2	6.29e+02	99.683 % Recovery	
2	CCV	0	②IC-QC OXALATE2	QC	5.070e2	5.17e+02	101.972 % Recovery	
3	BLNK-PREP	0	②IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3	BLNK-PREP	0	②IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3	BLNK-PREP	0	②IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3	BLNK-PREP	0	②IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3	BLNK-PREP	0	②IC-01 NO3-02	SOLID	1	<1.40e-1		ug/g
3	BLNK-PREP	0	②IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP	0	②IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP	0	②IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 F-02	SOLID	N/A	9.825e+01	98.240	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 CL-02	SOLID	N/A	5.566e+03	120.500	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 NO2-02	SOLID	N/A	6.455e+04	808.500	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 BR-02	SOLID	N/A	9.523e+02	952.400	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 NO3-02	SOLID	N/A	2.878e+05	1057.000	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 PO4-02	SOLID	N/A	2.702e+03	898.700	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 SO4-02	SOLID	N/A	1.156e+04	1027.000	ug/g
4	SAMPLE	S96T002675	0 W ②IC-01 OXALATE2	SOLID	N/A	5.218e+03	793.400	ug/g
5	DUP	S96T002675	0 W ②IC-01 F-02	SOLID	<9.82e1	<1.11e2		RPD
5	DUP	S96T002675	0 W ②IC-01 CL-02	SOLID	5.57e+03	5.57e+03	0.000	RPD
5	DUP	S96T002675	0 W ②IC-01 NO2-02	SOLID	6.46e+04	6.17e+04	4.592	RPD
5	DUP	S96T002675	0 W ②IC-01 BR-02	SOLID	<9.52e2	<1.07e3		RPD
5	DUP	S96T002675	0 W ②IC-01 NO3-02	SOLID	2.88e+05	3.01e+05	4.414	RPD
5	DUP	S96T002675	0 W ②IC-01 PO4-02	SOLID	2.70e+03	3.13e+03	14.751	RPD
5	DUP	S96T002675	0 W ②IC-01 SO4-02	SOLID	1.16e+04	1.16e+04	0.000	RPD
5	DUP	S96T002675	0 W ②IC-01 OXALATE2	SOLID	5.22e+03	4.91e+03	6.120	RPD
6	SPK	S96T002675	0 W ②IC-01 F-02	SOLID	5.900e1	7.75e+01	131.356 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9765

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T002675 0 W	QIC-01 CL-02	SOLID	7.900e1	7.95e+01	100.633 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 NO2-02	SOLID	5.430e2	5.93e+02	109.208 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 BR-02	SOLID	5.750e2	5.56e+02	96.696 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 NO3-02	SOLID	6.150e2	6.53e+02	106.179 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 PO4-02	SOLID	5.460e2	5.34e+02	97.802 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 SO4-02	SOLID	6.310e2	6.28e+02	99.525 % Recovery	
6 SPK	S96T002675 0 W	QIC-01 OXALATE2	SOLID	5.070e2	5.07e+02	100.000 % Recovery	
7 SAMPLE	S96T002676 0 W	QIC-01 F-02	SOLID	N/A	9.377e+01	93.770 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 CL-02	SOLID	N/A	7.059e+03	122.600 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 NO2-02	SOLID	N/A	8.237e+04	771.600 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 BR-02	SOLID	N/A	9.089e+02	909.000 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 NO3-02	SOLID	N/A	1.419e+05	1009.000 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 PO4-02	SOLID	N/A	2.796e+03	857.700 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 SO4-02	SOLID	N/A	1.754e+04	980.300 ug/g	
7 SAMPLE	S96T002676 0 W	QIC-01 OXALATE2	SOLID	N/A	6.913e+03	757.300 ug/g	
8 DUP	S96T002676 0 W	QIC-01 F-02	SOLID	<9.38e1	<1.02e2	RPD	
8 DUP	S96T002676 0 W	QIC-01 CL-02	SOLID	7.06e+03	6.77e+03	4.194 RPD	
8 DUP	S96T002676 0 W	QIC-01 NO2-02	SOLID	8.24e+04	7.83e+04	5.103 RPD	
8 DUP	S96T002676 0 W	QIC-01 BR-02	SOLID	<9.09e2	<9.91e2	RPD	
8 DUP	S96T002676 0 W	QIC-01 NO3-02	SOLID	1.42e+05	1.36e+05	4.317 RPD	
8 DUP	S96T002676 0 W	QIC-01 PO4-02	SOLID	2.80e+03	2.65e+03	5.505 RPD	
8 DUP	S96T002676 0 W	QIC-01 SO4-02	SOLID	1.75e+04	1.78e+04	1.700 RPD	
8 DUP	S96T002676 0 W	QIC-01 OXALATE2	SOLID	6.91e+03	7.10e+03	2.712 RPD	

Final page for worklist# 9765

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John M. Faye
Reviewer Signature _____ Date 7/16/96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				16-Jul-96			
Worklist#: 9765				Data File: 9765FX.CSV							
	Seq	Type	Sample #	Seq#	Data File	Sample Name		Dilution			
-	=>	1	CCB	-	1	96070711.d22	CCB ELUENT BLANK	1.00			
	=>	2	CCV		2	96070711.d23	CCV 140N9A	101.00			
	=>	3	BLNK-PREP		3	96070711.d24	PREP BLANK	1.00			
	=>	4	SAMPLE			96070711.d25	S96T002675 SMPL	51.00			
	=>	5	DUP		4	96070711.d26	S96T002675 SMPL	41.00			
	=>	6	SPK		5	96070711.d27	S96T002675 DUP	41.00			
	=>	7	SAMPLE		6	96070711.d28	S96T002675 SPIKE	41.00			
	=>	8	DUP		7	96070711.d29	S96T002676	41.00			
			S96T002676		8	96070711.d30	S96T002676 DUP	41.00			
+				+							

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 07/08/1996 10:17:04

Sample Name: CCB ELUENT BLANK Date: 07/08/1996 03:27:02
 Data File : C:\DX\DATA\96070711.d22
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 22 Detector: CDM-1
 Analyst : *[Signature]* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. %Delta Code
Totals			0.000	0	0	

File: 96070711.d22 Sample: CCB ELUENT BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 352 TO 359.

Data Reprocessed On 07/08/1996 10:17:06

Sample Name: CCV 140N9A				Date: 07/08/1996 03:38:33			
Data File : C:\DX\DATA\96070711.d23							
Method : C:\DX\METHOD\ANIONS.MET							
ACI Address: 1 System: 2 Inject#: 23				Detector: CDM-1			
Analyst :				Column:			

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.04	FLUORIDE	61.784	1593	8432	2	-0.32
4	1.54	CHLORIDE	80.163	1486	7684	1	-0.86
5	1.83	NITRITE	517.125	6424	36444	1	-1.08
6	2.72	BROMIDE	548.642	4015	25235	1	1.37
7	3.09	NITRATE	604.718	4788	35945	1	-2.52
8	4.48	PHOSPHATE	532.113	1354	15135	1	-0.07
9	5.88	SULFATE	629.254	3735	47742	1	-0.23
10	7.70	OXALATE	516.900	1809	30417	1	0.30
Totals			3490.699	25204	207035		

File: 96070711.d23 Sample: CCV 140N9A

```
=====
Sample Name: PREP BLANK                      Date: 07/08/1996 03:56:51
Data File  : C:\DX\DATA\96070711.d24
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 24         Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1 3000 5Hz 0.00 10.00      200
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.28		0.000	68	604	1	
Totals			0.000	68	604		

File: 96070711.d24 Sample: PREP BLANK

```

=====
Sample Name: S96T002675 SMPL                      Date: 07/08/1996 04:23:56
Data File  : E:\DATA\96070711.D26
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 26                Detector: CDM-1
Analyst    :                               Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	177	1017	2	
2	1.14		0.000	539	4966	2	
3	1.54	CHLORIDE	30.198	1347	7122	2	-0.43
4	1.84	NITRITE	350.185	10533	61424	2	-0.72
5	3.00	NITRATE	1561.581	30360	259525	1	0.11
6	4.47	PHOSPHATE	14.657	91	1008	1	-0.22
7	5.89	SULFATE	62.694	891	11547	1	0.00
8	7.74	OXALATE	28.305	235	4062	1	0.82
Totals			2047.620	44175	350672		

File: 96070711.D26 Sample: S96T002675 SMPL

Sample Name: S96T002675 DUP	Date: 07/08/1996 05:34:11
Data File : E:\DATA\96070711.D27	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 27	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	166	924	2	
2	1.14		0.000	465	4083	2	
3	1.54	CHLORIDE	26.847	1205	6321	1	-0.86
4	1.83	NITRITE	297.636	9148	52004	1	-1.08
5	3.00	NITRATE	1450.431	28578	237954	1	-0.11
6	4.49	PHOSPHATE	15.090	94	1038	1	0.22
7	5.90	SULFATE	55.828	808	10277	1	0.23
8	7.74	OXALATE	23.681	208	3398	1	0.82
Totals			1869.512	40671	315999		

File: 96070711.D27 Sample: S96T002675 DUP

Data Reprocessed On 07/15/1996 15:58:31

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=====
Sample Name: S96T002675 SPIKE                      Date: 07/08/1996 05:44:56
Data File  : E:\DATA\96070711.D28
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 28                 Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          41    3000  5Hz   0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	181	715	2	
2	1.04	FLUORIDE	30.983	1488	10449	2	0.32
3	1.53	CHLORIDE	61.980	2731	14859	2	-1.29
4	1.82	NITRITE	587.336	17887	104911	2	-1.44
5	2.70	BROMIDE	222.507	4251	25211	2	0.62
6	2.97	NITRATE	1822.800	35938	313055	2	0.00
7	4.46	PHOSPHATE	228.085	1403	16000	1	-0.37
8	5.87	SULFATE	314.010	4655	58958	1	-0.34
9	7.70	OXALATE	231.024	1999	33529	1	0.22
Totals			3498.725	70532	577687		

File: 96070711.D28 Sample: S96T002675 SPIKE

Data Reprocessed On 07/08/1996 10:17:20

```

=====
Sample Name: S96T002676                               Date: 07/08/1996 09:14:40
Data File  : C:\DX\DATA\96070711.d29
Method     : C:\DX\METHOD\ANIONS.MBT
ACI Address: 1 System: 2 Inject#: 29                   Detector: CDM-1
Analyst    :                                           Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	195	1144	2	
2	1.14		0.000	713	6376	2	
3	1.54	CHLORIDE	40.123	1713	9511	1	-0.86
4	1.84	NITRITE	468.209	14277	82862	1	-0.72
5	3.04	NITRATE	806.589	15557	123905	1	-4.00
6	4.50	PHOSPHATE	15.894	104	1094	1	0.52
7	5.90	SULFATE	99.719	1432	18417	1	0.11
8	7.74	OXALATE	39.294	337	5642	1	0.82
Totals			1469.828	34328	248951		

File: 96070711.d29 Sample: S96T002676

```

=====
Sample Name: S96T002676 DUP                      Date: 07/08/1996 09:28:12
Data File  : C:\DX\DATA\96070711.d30
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 30              Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	168	946	2	
2	1.14		0.000	640	5675	2	
3	1.54	CHLORIDE	35.267	1576	8339	2	-0.86
4	1.83	NITRITE	407.960	12630	71869	2	-1.08
5	3.04	NITRATE	708.934	13973	107942	1	-4.00
6	4.50	PHOSPHATE	13.802	97	949	1	0.37
7	5.90	SULFATE	92.870	1329	17144	1	0.11
8	7.74	OXALATE	37.017	316	5315	1	0.82
Totals			1295.850	30728	218180		

File: 96070711.d30 Sample: S96T002676 DUP

LABCORE Data Entry Template for Worklist# 9766

Analyst: RLM Instrument: IC00 IC03 Book# 14029A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

S Type	Sample#	R A Test	Matrix	Group#	Project
1 CCB		@IC-QC	QC		
2 CCV		@IC-QC	QC		
3 BLNK-PREP		@IC-01	SOLID		
4 SAMPLE	S96T002520 0 W	@IC-01	SOLID	96000536	U-102
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02				
5 DUP	S96T002520 0 W	@IC-01	SOLID		
6 SPK	S96T002520 0 W	@IC-01	SOLID		
7 SAMPLE	S96T002523 0 W	@IC-01	SOLID	96000536	U-102
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02				
8 DUP	S96T002523 0 W	@IC-01	SOLID		

Final page for worklist # 9766

RLM 7/7/96
Analyst Signature Date

Analyst Signature Date

Exported 9766 sy.csv

In shell 7/8/96 JMF

Re exported 9766 fx.csv 7/10/96 JMF

In shell

Uploaded 7/16/96 JMF

Validated 7/16/96 JMF

Data Entry Comments:

96070711.DB2 D21

LABCORE Completed Worklist Report for Worklist# 9766

Analyst: pjm

Instrument: IC03

Book# 140N9A

Method: 14-533-05 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	QIC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	QIC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	QIC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	QIC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	QIC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB	0	QIC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB	0	QIC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB	0	QIC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	QIC-QC F	QC	5.900e1	6.20e+01	105.085 % Recovery	
2	CCV	0	QIC-QC CL	QC	7.900e1	8.46e+01	107.089 % Recovery	
2	CCV	0	QIC-QC NO2	QC	5.430e2	5.40e+02	99.448 % Recovery	
2	CCV	0	QIC-QC BR	QC	5.750e2	5.78e+02	100.522 % Recovery	
2	CCV	0	QIC-QC NO3	QC	6.150e2	6.22e+02	101.138 % Recovery	
2	CCV	0	QIC-QC PO4	QC	5.460e2	5.59e+02	102.381 % Recovery	
2	CCV	0	QIC-QC SO4	QC	6.310e2	6.58e+02	104.279 % Recovery	
2	CCV	0	QIC-QC OXALATE2	QC	5.070e2	5.48e+02	108.087 % Recovery	
3	BLNK-PREP	0	QIC-01 F-02	SOLID	1	<1.30e-2		ug/g
3	BLNK-PREP	0	QIC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3	BLNK-PREP	0	QIC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3	BLNK-PREP	0	QIC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3	BLNK-PREP	0	QIC-01 NO3-02	SOLID	1	<1.40e-1		ug/g
3	BLNK-PREP	0	QIC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP	0	QIC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP	0	QIC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S96T002520	QIC-01 F-02	SOLID	N/A	<1.485e+02	148.500	ug/g
4	SAMPLE	S96T002520	QIC-01 CL-02	SOLID	N/A	3.612e+03	194.200	ug/g
4	SAMPLE	S96T002520	QIC-01 NO2-02	SOLID	N/A	3.153e+04	1222.000	ug/g
4	SAMPLE	S96T002520	QIC-01 BR-02	SOLID	N/A	1.439e+03	1439.000	ug/g
4	SAMPLE	S96T002520	QIC-01 NO3-02	SOLID	N/A	5.006e+05	1598.000	ug/g
4	SAMPLE	S96T002520	QIC-01 PO4-02	SOLID	N/A	1.358e+03	1358.000	ug/g
4	SAMPLE	S96T002520	QIC-01 SO4-02	SOLID	N/A	4.134e+03	1552.000	ug/g
4	SAMPLE	S96T002520	QIC-01 OXALATE2	SOLID	N/A	1.543e+03	1200.000	ug/g
5	DUP	S96T002520	QIC-01 F-02	SOLID	<1.48e+2	<1.34e2		RPD
5	DUP	S96T002520	QIC-01 CL-02	SOLID	3.61e+03	2.46e+03	37.891	RPD
5	DUP	S96T002520	QIC-01 NO2-02	SOLID	3.15e+04	2.91e+04	7.921	RPD
5	DUP	S96T002520	QIC-01 BR-02	SOLID	<1.44e3	<1.30e3		RPD
5	DUP	S96T002520	QIC-01 NO3-02	SOLID	5.01e+05	4.95e+05	1.205	RPD
5	DUP	S96T002520	QIC-01 PO4-02	SOLID	<1.23e3			RPD
5	DUP	S96T002520	QIC-01 SO4-02	SOLID	4.13e+03	3.53e+03	15.666	RPD
5	DUP	S96T002520	QIC-01 OXALATE2	SOLID	1.54e+03	2.00e+03	25.989	RPD
6	SPK	S96T002520	QIC-01 F-02	SOLID	5.900e1	6.11e+01	103.559 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9766

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	896T002520	0 W	•IC-01 CL-02	SOLID	7.900±1	7.17±01	90.759 %	Recovery
6 SPK	896T002520	0 W	•IC-01 NO2-02	SOLID	5.430±2	5.53±02	101.842 %	Recovery
6 SPK	896T002520	0 W	•IC-01 BR-02	SOLID	5.750±2	5.25±02	91.304 %	Recovery
6 SPK	896T002520	0 W	•IC-01 NO3-02	SOLID	6.150±2	5.34±02	86.829 %	Recovery
6 SPK	896T002520	0 W	•IC-01 PO4-02	SOLID	5.460±2	5.41±02	99.084 %	Recovery
6 SPK	896T002520	0 W	•IC-01 SO4-02	SOLID	6.310±2	6.18±02	97.940 %	Recovery
6 SPK	896T002520	0 W	•IC-01 OXALATE2	SOLID	5.070±2	5.08±02	100.197 %	Recovery
7 SAMPLE	896T002523	0 W	•IC-01 F-02	SOLID	N/A	< 1.343±02	134.300	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 CL-02	SOLID	N/A	2.618±03	175.700	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 NO2-02	SOLID	N/A	3.004±04	1106.000	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 BR-02	SOLID	N/A	< 1.302±03	1302.000	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 NO3-02	SOLID	N/A	4.763±05	1446.000	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 PO4-02	SOLID	N/A	2.318±03	1229.000	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 SO4-02	SOLID	N/A	2.876±03	1405.000	ug/g
7 SAMPLE	896T002523	0 W	•IC-01 OXALATE2	SOLID	N/A	1.651±03	1085.000	ug/g
8 DUP	896T002523	0 W	•IC-01 F-02	SOLID	<1.34±2	<1.39±2		RPD
8 DUP	896T002523	0 W	•IC-01 CL-02	SOLID	2.62±03	2.62±03	0.000	RPD
8 DUP	896T002523	0 W	•IC-01 NO2-02	SOLID	3.00±04	3.03±04	0.995	RPD
8 DUP	896T002523	0 W	•IC-01 BR-02	SOLID	<1.30±3	<1.35±3		RPD
8 DUP	896T002523	0 W	•IC-01 NO3-02	SOLID	4.76±05	4.75±05	0.210	RPD
8 DUP	896T002523	0 W	•IC-01 PO4-02	SOLID	2.32±03	2.34±03	0.858	RPD
8 DUP	896T002523	0 W	•IC-01 SO4-02	SOLID	2.88±03	2.93±03	1.721	RPD
8 DUP	896T002523	0 W	•IC-01 OXALATE2	SOLID	1.65±03	1.43±03	14.286	RPD

Final page for worklist# 9766

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Lyle 7/16/96
Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				16-Jul-96	
Worklist#: 9766				Data File: 9766PX.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96070711.d13	CCB ELUENT BLANK	1.00	
	=>	2	CCV		2	96070711.d14	CCV 140N9A	101.00	
	=>	3	BLNK-PREP		3	96070711.d15	PREP BLANK	1.00	
	=>	4	SAMPLE			96070711.d16	S96T002520 SMPL	41.00	
	=>	5	DUP		4	96070711.d17	S96T002520 SMPL	51.00	
	=>	6	SPK		5	96070711.d18	S96T002520 DUP	51.00	
	=>	7	SAMPLE		6	96070711.d19	S96T002520 SPIKE	51.00	
	=>	8	DUP		7	96070711.d20	S96T002523 SMPL	51.00	
					8	96070711.d21	S96T002523 DUP	51.00	
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 07/03/1996 10:19:36

Sample Name: CCB ELUENT BLANK Date: 07/07/1996 23:54:42
 Data File : C:\DX\DATA\96070711.d13
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 13 Detector: CDM-1
 Analyst: *John F. [Signature]* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.37		0.000	53	324	1	
Totals			0.000	53	324		

File: 96070711.d13 Sample: CCB ELUENT BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 364 TO 371.

Data Reprocessed On 07/08/1996 10:19:39

Sample Name: CCV 140N9A	Date: 07/08/1996 00:05:35
Data File : C:\DX\DATA\96070711.d14	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 14	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	63	242	2	
2	1.04	FLUORIDE	61.973	1649	8458	2	-0.32
3	1.36		0.000	53	307	2	
4	1.54	CHLORIDE	84.579	1632	8115	2	-0.43
5	1.84	NITRITE	540.264	6894	38101	1	-0.72
6	2.72	BROMIDE	577.644	4243	26597	2	1.62
7	3.09	NITRATE	621.827	5034	36983	2	-2.52
8	4.48	PHOSPHATE	559.055	1419	15918	1	0.07
9	5.88	SULFATE	657.578	3931	49936	1	-0.23
10	7.70	OXALATE	548.480	1902	32299	1	0.30
Totals			3651.399	26820	216955		

File: 96070711.d14 Sample: CCV 140N9A

Data Reprocessed On 07/08/1996 10:19:42

Sample Name: PREP BLANK	Date: 07/08/1996 01:57:58
Data File : C:\DX\DATA\96070711.d15	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 15	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.28		0.000	69	607	1	
3	3.14	NITRATE	0.039	43	231	1	-1.05
Totals			0.039	112	838		

File: 96070711.d15 Sample: PREP BLANK

Data Reprocessed On 07/15/1996 17:00:16

```

=====
Sample Name: S96T002520 SMPL                      Date: 07/08/1996 02:25:54
Data File  : E:\DATA\96070711.D17
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 17                Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External           1           51  3000  5Hz  0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.37		0.000	22	315	1	
2	0.89		0.000	130	710	2	
3	1.14		0.000	173	1395	2	
5	1.54	CHLORIDE	16.127	582	3032	1	-0.86
6	1.83	NITRITE	140.801	3353	19516	1	-1.08
7	2.98	NITRATE	2235.196	34972	307555	1	0.11
8	5.90	SULFATE	18.459	215	2724	1	0.23
9	7.74	OXALATE	6.889	52	794	1	0.82
Totals			2417.472	39498	336041		

File: 96070711.D17 Sample: S96T002520 SMPL

Data Reprocessed On 07/15/1996 17:00:50

```

=====
Sample Name: S96T002520 DUP                      Date: 07/08/1996 02:38:03
Data File  : E:\DATA\96070711.D18
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 18              Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          51    3000  5Hz   0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.89		0.000	147	812	2	
3	1.14		0.000	162	1375	2	
5	1.54	CHLORIDE	12.123	464	2276	1	-0.43
6	1.83	NITRITE	143.879	3477	19946	1	-1.08
7	2.98	NITRATE	2446.739	38622	344600	1	-0.11
9	5.90	SULFATE	17.417	214	2570	1	0.23
10	7.76	OXALATE	9.860	61	1136	1	1.09
Totals			2630.018	43147	372714		

File: 96070711.D18 Sample: S96T002520 DUP

Data Reprocessed On 07/15/1996 17:01:28

Sample Name: S96T002520 SPIKE Date: 07/08/1996 02:48:48
 Data File : E:\DATA\96070711.D19
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 19 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	136	518	2	
2	1.04	FLUORIDE	30.544	1492	8252	2	0.32
3	1.54	CHLORIDE	51.969	1877	9912	1	-0.86
4	1.83	NITRITE	417.500	10206	58809	1	-1.08
5	2.71	BROMIDE	262.436	4194	23880	2	1.12
6	2.97	NITRATE	2502.362	39651	354718	2	0.00
7	4.48	PHOSPHATE	270.652	1345	15248	1	-0.07
8	5.88	SULFATE	327.652	3845	49261	1	-0.11
9	7.68	OXALATE	260.755	1795	30387	1	0.04
Totals			4123.869	64543	550985		

File: 96070711.D19 Sample: S96T002520 SPIKE

Sample Name: S96T002523 SMPL Date: 07/08/1996 02:59:33
Data File : E:\DATA\96070711.D20
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 20 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	136	724	2	
2	1.14		0.000	153	1230	2	
4	1.54	CHLORIDE	12.922	487	2426	1	-0.43
5	1.83	NITRITE	148.254	3570	20558	1	-1.08
6	2.98	NITRATE	2350.459	36929	327470	1	0.11
7	4.50	PHOSPHATE	11.438	65	632	1	0.37
8	5.90	SULFATE	14.194	171	2094	1	0.23
9	7.76	OXALATE	8.149	54	939	1	1.00
Totals			2545.416	41566	356072		

File: 96070711.D20 Sample: S96T002523 SMPL

Data Reprocessed On 07/16/1996 13:44:38

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=====
Sample Name: S96T002523 DUP                      Date: 07/08/1996 03:10:20
Data File  : E:\DATA\96070711.D21
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 21              Detector: CDM-1
Analyst    :                                     Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          51    3000   5Hz   0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.89		0.000	135	717	2	
3	1.14		0.000	151	1213	2	
5	1.54	CHLORIDE	12.506	484	2348	2	-0.86
6	1.83	NITRITE	144.515	3505	20035	1	-1.08
7	2.98	NITRATE	2265.803	35674	312784	1	0.11
8	4.49	PHOSPHATE	11.161	63	617	1	0.22
9	5.91	SULFATE	14.005	167	2066	1	0.34
10	7.75	OXALATE	6.844	50	789	1	0.91
Totals			2454.834	40231	340568		

File: 96070711.D21 Sample: S96T002523 DUP

LABCORE Data Entry Template for Worklist# 9767

Analyst: ABD Instrument: IC00 1C03 Book# 140N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T002483 0 W			@IC-01	SOLID	96000536	U-102
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S96T002483 0 W			@IC-01	SOLID		
6	SPK	S96T002483 0 W			@IC-01	SOLID		
7	SAMPLE	S96T002491 0 W			@IC-01	SOLID	96000536	U-102
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S96T002491 0 W			@IC-01	SOLID		

Final page for worklist # 9767

Analyst Signature

Date

Analyst Signature

Date

Exported 9767.jy.csv

Installed 7/8/96 MF

Uploaded 7-15-96 Hh

Data Entry Comments:

96070391. D07 → D14

LABCORE Completed Worklist Report for Worklist# 9767

Analyst: krq

Instrument: IC03

Book# 140N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	⊗IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	⊗IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	⊗IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	⊗IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	⊗IC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB	0	⊗IC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB	0	⊗IC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB	0	⊗IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	⊗IC-QC F	QC	5.900e1	5.89e+01	99.831 % Recovery	
2	CCV	0	⊗IC-QC CL	QC	7.900e1	7.89e+01	99.873 % Recovery	
2	CCV	0	⊗IC-QC NO2	QC	5.430e2	5.13e+02	94.475 % Recovery	
2	CCV	0	⊗IC-QC BR	QC	5.750e2	5.49e+02	95.478 % Recovery	
2	CCV	0	⊗IC-QC NO3	QC	6.150e2	5.89e+02	95.772 % Recovery	
2	CCV	0	⊗IC-QC PO4	QC	5.460e2	5.34e+02	97.802 % Recovery	
2	CCV	0	⊗IC-QC SO4	QC	6.310e2	6.25e+02	99.049 % Recovery	
2	CCV	0	⊗IC-QC OXALATE2	QC	5.070e2	5.19e+02	102.367 % Recovery	
3	BLNK-PREP	0	⊗IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3	BLNK-PREP	0	⊗IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3	BLNK-PREP	0	⊗IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3	BLNK-PREP	0	⊗IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3	BLNK-PREP	0	⊗IC-01 NO3-02	SOLID	1	<1.40e-1		ug/g
3	BLNK-PREP	0	⊗IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP	0	⊗IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP	0	⊗IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 F-02	SOLID	N/A	<1.242e+02	124.200	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 CL-02	SOLID	N/A	4.970e+03	162.400	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 NO2-02	SOLID	N/A	5.448e+04	1022.000	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 BR-02	SOLID	N/A	<1.204e+03	1204.000	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 NO3-02	SOLID	N/A	2.125e+05	1337.000	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 PO4-02	SOLID	N/A	2.603e+03	1136.000	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 SO4-02	SOLID	N/A	2.997e+04	1298.000	ug/g
4	SAMPLE	S96T002483	0 W ⊗IC-01 OXALATE2	SOLID	N/A	8.548e+03	1003.000	ug/g
5	DUP	S96T002483	0 W ⊗IC-01 F-02	SOLID	<1.24e2	<1.40e2		RPD
5	DUP	S96T002483	0 W ⊗IC-01 CL-02	SOLID	4.97e+03	4.62e+03	7.299	RPD
5	DUP	S96T002483	0 W ⊗IC-01 NO2-02	SOLID	5.45e+04	4.78e+04	13.099	RPD
5	DUP	S96T002483	0 W ⊗IC-01 BR-02	SOLID	<1.20e3	<1.36e3		RPD
5	DUP	S96T002483	0 W ⊗IC-01 NO3-02	SOLID	2.12e+05	2.27e+05	6.834	RPD
5	DUP	S96T002483	0 W ⊗IC-01 PO4-02	SOLID	2.60e+03	6.36e+03	83.929	RPD
5	DUP	S96T002483	0 W ⊗IC-01 SO4-02	SOLID	3.00e+04	2.96e+04	1.342	RPD
5	DUP	S96T002483	0 W ⊗IC-01 OXALATE2	SOLID	8.55e+03	9.82e+03	13.827	RPD
6	SPK	S96T002483	0 W ⊗IC-01 F-02	SOLID	5.900e1	7.49e+01	126.949 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9767

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T002483	0 W EIC-01 CL-02	SOLID	7.900e1	7.45e+01	94.304 %	Recovery
6 SPK	S96T002483	0 W EIC-01 NO2-02	SOLID	5.430e2	5.76e+02	106.077 %	Recovery
6 SPK	S96T002483	0 W EIC-01 BR-02	SOLID	5.750e2	5.69e+02	98.957 %	Recovery
6 SPK	S96T002483	0 W EIC-01 NO3-02	SOLID	6.150e2	7.00e+02	113.821 %	Recovery
6 SPK	S96T002483	0 W EIC-01 PO4-02	SOLID	5.460e2	5.57e+02	102.015 %	Recovery
6 SPK	S96T002483	0 W EIC-01 SO4-02	SOLID	6.310e2	6.83e+02	108.241 %	Recovery
6 SPK	S96T002483	0 W EIC-01 OXALATE2	SOLID	5.070e2	4.83e+02	95.266 %	Recovery
7 SAMPLE	S96T002491	0 W EIC-01 F-02	SOLID	N/A	1.251e+02	125.200	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 CL-02	SOLID	N/A	5.754e+03	163.700	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 NO2-02	SOLID	N/A	6.318e+04	1030.000	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 BR-02	SOLID	N/A	1.213e+03	1213.000	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 NO3-02	SOLID	N/A	1.992e+05	1347.000	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 PO4-02	SOLID	N/A	3.737e+03	1144.000	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 SO4-02	SOLID	N/A	2.298e+04	1308.000	ug/g
7 SAMPLE	S96T002491	0 W EIC-01 OXALATE2	SOLID	N/A	8.757e+03	1011.000	ug/g
8 DUP	S96T002491	0 W EIC-01 F-02	SOLID	<1.25e2	<1.45e2		RPD
8 DUP	S96T002491	0 W EIC-01 CL-02	SOLID	5.75e+03	5.72e+03	0.523	RPD
8 DUP	S96T002491	0 W EIC-01 NO2-02	SOLID	6.32e+04	6.31e+04	0.158	RPD
8 DUP	S96T002491	0 W EIC-01 BR-02	SOLID	<1.21e3	<1.41e3		RPD
8 DUP	S96T002491	0 W EIC-01 NO3-02	SOLID	1.99e+05	2.00e+05	0.501	RPD
8 DUP	S96T002491	0 W EIC-01 PO4-02	SOLID	3.74e+03	5.00e+03	28.833	RPD
8 DUP	S96T002491	0 W EIC-01 SO4-02	SOLID	2.30e+04	2.22e+04	3.540	RPD
8 DUP	S96T002491	0 W EIC-01 OXALATE2	SOLID	8.76e+03	8.15e+03	7.215	RPD

Final page for worklist# 9767

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Haneator 7-16-96
Reviewer Signature Date

Validated by Haneator 7-16-96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				15-Jul-96	
Worklist#: 9767				Data File: 9767JY.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	2	96070391.d07	CCV 140N9-A		101.00
	=>	2	CCV		1	96070391.d08	CCB		1.00
	=>	3	BLNK-PREP		3	96070391.d09	BLANK PREP		1.00
	=>	4	SAMPLE		4	96070391.d10	S96T002483		51.00
	=>	5	DUP		5	96070391.d11	S96T002483 DUP		51.00
	=>	6	SPK		6	96070391.d12	S96T002483 SPIK		51.00
	=>	7	SAMPLE		7	96070391.d13	S96T002491		51.00
	=>	8	DUP		8	96070391.d14	S96T002491 DUP		51.00
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 07/08/1996 10:53:32

Sample Name: CCV 140N9-A

Date: 07/03/1996 23:36:32

Data File : C:\DX\DATA\96070391.d07

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 7

Detector: CDM-1

Analyst *James L. Lee* Column:*KRQ 7/8/96*

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	62	245	2	
2	1.04	FLUORIDE	58.941	1527	8039	2	0.32
3	1.55	CHLORIDE	78.905	1476	7562	1	0.00
4	1.85	NITRITE	513.040	6363	36152	1	0.00
5	2.74	BROMIDE	549.138	3995	25258	2	2.36
6	3.12	NITRATE	588.823	4750	34983	2	-1.68
7	4.59	PHOSPHATE	533.912	1351	15188	1	2.46
8	6.05	SULFATE	625.203	3667	47428	1	2.72
9	7.93	OXALATE	519.142	1751	30550	1	3.26
Totals			3467.105	24942	205405		

File: 96070391.d07 Sample: CCV 140N9-A

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 376 TO 383.

Data Reprocessed On 07/03/1996 10:53:35

Sample Name: CCB

Date: 07/03/1996 23:56:31

Data File : C:\DX\DATA\96070391.d08

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 8

Detector: CDM-1

Analyst *John J. Lee* Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		200

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 96070391.d08 Sample: CCB

Data Reprocessed On 07/08/1996 10:53:37

```

=====
Sample Name: BLANK PREP                      Date: 07/04/1996 01:59:34
Data File  : C:\DX\DATA\96070391.d09
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 9           Detector: CDM-1
Analyst    :                               Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====

```

```

External      1      1      3000  5Hz   0.00 10.00      200
=====

```

```

***** Peak Report: All Peaks *****

```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.36		0.000	66	665	1	
4	6.19	SULFATE	0.085	50	638	1	5.09
Totals			0.085	116	1304		

File: 96070391.d09 Sample: BLANK PREP

Data Reprocessed On 07/03/1996 10:53:40

Sample Name: S96T002483	Date: 07/04/1996 02:16:30
Data File : C:\DX\DATA\96070391.d10	
Method : C:\DX\METHOD\ANICNS.MET	
ACI Address: 1 System: 2 Inject#: 10	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	154	894	2	
2	1.14		0.000	382	3527	2	
3	1.55	CHLORIDE	26.530	930	5008	1	0.00
4	1.84	NITRITE	290.803	6889	40657	1	-0.36
5	3.06	NITRATE	1134.217	17680	141456	1	-3.36
6	4.56	PHOSPHATE	13.897	74	768	1	1.86
7	6.00	SULFATE	159.991	1834	23807	1	1.92
8	7.90	OXALATE	45.631	326	5267	1	2.82
Totals			1671.068	28269	221384		

File: 96070391.d10 Sample: S96T002483

Data Reprocessed On 07/08/1996 10:53:42

```

=====
Sample Name: S96T002483 DUP                               Date: 07/04/1996 02:29:32
Data File  : C:\DX\DATA\96070391.d11
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 11                      Detector: CDM-1
Analyst    :                                           Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          51    3000  5Hz   0.00 10.00      200
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	127	664	2	
2	1.14		0.000	314	2989	2	
3	1.54	CHLORIDE	21.846	791	4116	1	-0.43
4	1.84	NITRITE	225.925	5520	31468	1	-0.36
5	3.06	NITRATE	1070.251	16880	132833	1	-3.58
6	4.56	PHOSPHATE	30.053	155	1664	1	1.71
7	6.00	SULFATE	139.859	1598	20786	1	1.81
8	7.88	OXALATE	46.410	301	5357	1	2.65
Totals			1534.343	25686	199876		

File: 96070391.d11 Sample: S96T002483 DUP

Data Reprocessed On 07/15/1996 15:43:33

```

=====
Sample Name: S96T002483 SPIKE                      Date: 07/04/1996 02:41:21
Data File  : E:\DATA\96070391.D12
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 12                 Detector: CDM-1
Analyst    :                               Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          51    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	163	659	2	
2	1.04	FLUORIDE	37.452	1587	10149	2	0.32
3	1.54	CHLORIDE	63.805	2348	12229	1	-0.43
4	1.84	NITRITE	578.754	14577	82323	1	-0.36
5	2.73	BROMIDE	284.684	4274	25946	2	1.87
6	3.04	NITRATE	1484.195	23315	190349	2	-4.21
7	4.54	PHOSPHATE	292.439	1459	16503	1	1.26
8	5.97	SULFATE	501.606	6006	76254	1	1.36
9	7.70		0.000	863	3647	2	
10	7.84	OXALATE	287.055	2162	33492	2	-0.04
Totals			3529.989	56754	451552		

File: 96070391.D12 Sample: S96T002483 SPIKE

Data Reprocessed On 07/03/1996 10:53:48

```

=====
Sample Name: S96T002491                      Date: 07/04/1996 02:52:38
Data File  : C:\DX\DATA\96070391.d13
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 13          Detector: CDM-1
Analyst    :                               Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          51    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.89		0.000	140	781	2	
3	1.14		0.000	459	4223	2	
4	1.54	CHLORIDE	30.484	1088	5764	1	-0.43
5	1.84	NITRITE	334.735	8061	46920	1	-0.36
6	3.06	NITRATE	1055.540	16585	130863	1	-3.36
7	4.55	PHOSPHATE	19.799	102	1095	1	1.56
8	5.99	SULFATE	121.755	1378	18076	1	1.70
9	7.88	OXALATE	46.397	304	5355	1	2.56
Totals			1608.709	28116	213076		

File: 96070391.d13 Sample: S96T002491

Data Reprocessed On: 07/03/1996 10:53:50

```

=====
Sample Name: S96T002491 DUP                      Date: 07/04/1996 03:04:24
Data File  : C:\DX\DATA\96070391.d11
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 14              Detector: CDM-1
Analyst    :                      Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          51    3000  5Hz   0.00 10.00      200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	110	562	2	
2	1.15		0.000	380	3525	2	
3	1.54	CHLORIDE	26.104	933	4927	1	-0.43
4	1.84	NITRITE	288.230	6904	40291	1	-0.72
5	3.07	NITRATE	915.504	14358	112335	1	-3.15
6	4.54	PHOSPHATE	22.850	117	1264	1	1.41
7	5.99	SULFATE	101.437	1157	15041	1	1.70
8	7.88	OXALATE	37.205	245	4293	1	2.56
Totals			1391.329	24204	182238		

File: 96070391.d14 Sample: S96T002491 DUP

LABCORE Data Entry Template for Worklist# 9768

Analyst: Rm Instrument: IC00 IC03 Book# 140N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-102 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T002481 0 W			@IC-01	SOLID	96000536	U-102
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S96T002481 0 W			@IC-01	SOLID		
6	SPK	S96T002481 0 W			@IC-01	SOLID		
7	SAMPLE	S96T002482 0 W			@IC-01	SOLID	96000536	U-102
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S96T002482 0 W			@IC-01	SOLID		

Final page for worklist # 9768

Rm 7/6/96
Analyst Signature Date

Analyst Signature Date

Expanded 9768.jx.csv

Install 7/8/96

use 9768fx.csv

Data Entry Comments:

96070601.DA → D16

Analyst did spike on S96T002482 not
S96T002481, need to change WKL & contact PC.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				23-Jul-96			
Worklist#: 10880					Data File: 9768FX.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	2	96070601.d09	CCV 140N9A		101.00	
	=>	2	CCV			1	96070601.d10	CCB		1.00	
	=>	3	BLNK-PREP			3	96070601.d11	PREP BLK		1.00	
	=>	4	SAMPLE	S96T002482		7	96070601.d12	S96T002481 SMPL		41.00	
	=>	5	DUP	S96T002482		8	96070601.d13	S96T002481 DUP		41.00	
	=>	6	SPK	S96T002482		4	96070601.d14	S96T002482 SMPL		41.00	
	=>	7	SAMPLE	S96T002481		5	96070601.d15	S96T002482 DUP		41.00	
	=>	8	DUP	S96T002481		6	96070601.d16	S96T002482 SPIKE		41.00	
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 07/08/1996 10:48:51

Sample Name: CCV 140N9A Date: 07/06/1996 02:58:17
 Data File : C:\DX\DATA\96070601.d09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9 Detector: CDM-1
 Analyst : *James E. [Signature]* Column:

Calibration Volume Dilution/Points Rate Start Stop Area Reject
 External 1 101 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	58	228	2	
2	1.04	FLUORIDE	57.534	1548	7844	2	-0.32
3	1.37		0.000	39	228	2	
4	1.54	CHLORIDE	78.311	1513	7504	2	-0.86
5	1.82	NITRITE	505.035	6500	35580	1	-1.44
6	2.70	BROMIDE	543.507	4042	24994	2	0.62
7	3.06	NITRATE	584.295	4861	34709	2	-3.36
8	4.49	PHOSPHATE	528.439	1346	15029	1	0.22
9	5.87	SULFATE	615.142	3696	46650	1	-0.34
10	7.69	OXALATE	515.986	1831	30363	1	0.13
Totals			3428.249	25435	203128		

File: 96070601.d09 Sample: CCV 140N9A

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 384 TO 393.